

	ATP	Ref:	6312404
Alstom Ref:		77107	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation 1 – Reworks to Contract Material for Portion 1

TfNSW refers to Alstom's letter referenced above dated 2 July 2019, wherein Alstom has submitted a detailed estimate of the costs and an extension of time claim arising from the reworks to the Contract Material associated with Portion 1 ("Variation Proposal").

Further to your letter above, TfNSW advises that it has assessed and accepts the time and cost impact associated in undertaking reworks to the Contract Material for Portion 1 as requested by TfNSW in letter ref. 6296895 dated 18 June 2019.

As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues a variation no. 1 to Alstom as per below:

Scope of Variation:

Perform the reworks to the Contract Material associated with Portion 1 arising from the changes below to the Signalling Design relating to Signalling Package 1 and Signalling Plan Package 1 and transmitted via Teambinder ref. no. ATP-TfNSW-ALS-TX-000026 on 29 May 2019 (copy enclosed):

- Changes to High Risk Speed Sign (HRSS) at 47.155km and 47.423km distance iterations, and
- The AEO Design Package Report now includes Appendix G Fringe Balises.

Variation Amount:

In accordance with clause 16.3(b) of the Agreement, the Fee associated with this variation is valued at a lump sum amount of \$80,447.44. Please refer to table 1 below for breakdown of the variation amount:

Table 1

Role	Hourly Rate	Total Hours	Amount (AUD)
Project Management		-	
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			

Infrastructure & Place

Automatic Train Protection Program
Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067,
Locked Bag 6501, St Leonards NSW 2065.
T (02) 9200 0200
ABN: 18 804 239 602



Role	Hourly Rate	Total Hours	Amount (AUD)
Data Validation Manager			
Independent Peer Reviewer			
System Assurance			
Total Variation Amount			\$80,447.44

Adjustment to the Fee:

The overall value of the Fee will be increased by a lump sum amount of \$80,447.44. Please refer to table 2 below for breakdown of the revised Fee:

Table 2

Original Fee	\$ 23,438,464.86
Variation 1 Amount	\$80,447.44
Revised Fee	\$23,518,912.30

Extension of Time to Portion 1 Completion

Pursuant to clause 18.5 of the Agreement, TfNSW grants an extension of time of time of the Completion of Portion 1. The revised Date for Completion of Portion 1 is 3 September 2019.

TfNSW requests Alstom to accept this variation 1 by signing in the space provided below and return a signed copy in its entirety to Rajiv Garg (Rajiv.garg@transport.nsw.gov.au).

Dated: 21/08/2019

Yours sin	cerely,
	2010-

Himesh Nair Principal's Representative

Attachment: Teambinder transmittal ref. ATP-TfNSW-ALS-TX-000026

Variation 1 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd:

Signature: ______

Name (print): ______

Position: _____

29/05/2019 Print Preview

Document Transmittal



Project Number: ATP Transmittal No: ATP-TFNSW-ALS-TX-000026

Project Title: Automatic Train Protection

Date: 29 May 2019 04:13 PM

Subject: A1 - P1 - Hornsby(Excl) - Berowra(Incl) - Signalling Detailed Design - AEO (SP, CT,

SCF) - for Alstom

Reason for Issue: Issued For Information

Message: Hi Cameron,

Please find attached the following A1 P1 Signalling Deliverables (AEO Approved) documents for Signalling Plan, Control Tables and SCFs.

Formal cover letter to follow shortly; to formalise this as an input into your design activities.

Please note the attached AEO copy documents were submitted on the 12th February 2019 via email.

There has been following changes to the documents:

- Changes only to HRSS 47.155km and 47.423km distance iterations, no change to gradients.
- AEO DPR Report includes Appendix G Fringe Balises.

Can you please conduct an assessment and advise on the impact of the data delivery.

Do not hesitate to contact me if you have any questions.

kind Regards, Zaid Aglodiya

Transmitted to:

Company	
Alstom Transport Australia Pty Limited	

Transmitted cc:

Company	
Transport for NSW	Lalitha Ramalingareddy
Transport for NSW	TfNSW ATP Alstom
Alstom Transport Australia Pty Limited	Alstom AMS
Alstom Transport Australia Pty Limited	Jennifer Barnett
Transport for NSW	Himesh Nair

29/05/2019 Print Preview

Transport for NSW	Rajiv Garg
Transport for NSW	Zaid Aglodiya
Transport for NSW	Kee Foo
Transport for NSW	Ibrahim Mian

Click here to download all Transmittal files.

Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	<u>ATP-BSMA-EM-000025</u>	1	IFR	A1 - M2 - Hornsby(Excl) - Berowra(Incl) - Signalling Plan - AEO APPROVED		
2	ATP-BSMA-EM-000027	2	IFR	A1 - M2 - Hornsby(Excl) - Berowra(Incl) - ERA Tool Calculations - AEO APPROVED		
3	ATP-BSMA-EM-000028	2	IFR	A1 - M2 - Hornsby (excl) - Berowra (incl) - Gradient Output Tables - AEO APPROVED		
4	<u>ATP-BSMA-EM-000029</u>	1	IFR	A1 - M2 - Hornsby(Excl) - Berowra(Incl) - Site Certification Form - AEO APPROVED		
5	<u>ATP-BSMA-EM-000039</u>	1	IFR	A1 - M2 - Hornsby(Excl) - Berowra(incl) - ETCS Tables - AEO APPROVED		
6	<u>ATP-BSMA-EM-000153</u>	-	IFR	A1 – M2 – Hornsby (Excl) – Berowra (Incl) – Design Report – AEO APPROVED		

Transmitted by: Zaid Aglodiya, Transport for NSW



ATP Letter Ref: 6349661 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

* ** **	
Attention:	
AUGITUOII.	

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation Order 2 - Non-productive Costs (April to June 2019)
(inclusive)

TfNSW makes reference to the following:

- TfNSW's letter ref. 6273763 dated 22 May 2019, wherein TfNSW notified Alstom of the revised Design Due Dates,
- Alstom's letter referenced above wherein Alstom submitted a claim, under clause 3.1B(g) of the Agreement, for the extra costs incurred by Alstom during the months of April 2019 and May 2019 resulting from delays in receiving Design Package by the Design Due Date(s) under the Agreement, and
- Alstom's email of 31 August 2019, wherein Alstom revised their claim to include the extra costs incurred during the month of June 2019 and provided the timesheets of the Design Personnel unproductive time in support of the extra costs claimed.

Further to the above, TfNSW has verified the supporting timesheets and acknowledges that Alstom has incurred extra costs of the Design Personnel due to TfNSW's delays in providing the Design Package by the relevant Design Due Date.

Therefore, in accordance with provisions of clause 3.1B(g) of the Agreement, TfNSW pursuant to clause 16.2 of the Agreement, issues a Variation Order 2 to compensate Alstom for the extra costs of the Design Personnel incurred in the months from April 2019 to June 2019 (as per table 1 below) and adjusts the Fee by a lump sum amount of \$504,400.00.

Table 1

Month	Unproductive Man-hours	Rate (schedule 6 of the Agreement)	Amount
April 2019			Part of the second
May 2019			
June 2019			



Adjustment to the Fee:

Please refer to table 2 below for the breakdown of the revised Fee:

Table 2

-	
Original Fee	\$ 23,438,464.86
Variation 1 (Reworks to Portion 1 Contract Material)	\$80,447.44
Variation 2 (Unproductive man-hours cost April 2019 – June 2019)	\$504,400.00
Revised Fee	\$24,023,312.30

TfNSW requests Alstom's acceptance of this variation 2 by signing in the space provided below and returning a signed copy in its entirety to Rajiv Garg (Rajiv.garg@transport.nsw.gov.au).

Dated: 20/09/2019

Yours sincerely,



Variation 2 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd:

Signature: ______

Name (print): ______

Position: ______



NUMBER OF ALTABA Make Chief

"Alston Transcort Austral & Psychol 16 Official Avenue. 146-10 FOAL, T482N 2113

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Automatic Train Protection Propriet (ATP)

AMS Area 1, 6, 7, 8 and 5 Trackage Data Degion (IBC-17-4880) ("Aurocinent")

Variation 8 - No.: Productive Man Hours Costs Subject.

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- A elemin ferter reterencet) data: 29 Newsyrbe, 2019 Torresals near extension the month of

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September 2015			
October 2019			
	Total work	erlon Center S Amburn	\$100,788.00



Adjustment to the Fee.

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T:N: 2

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Valid on SigSt proceds: the High substitute 2019 \pm Calabor 2015;	5382 765,00
Roy sed Foo	1524,586 077.50

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Name (order)

WOUNGER

190 6/1/2020

M*:4*



ATP Ref: 6433778 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation 4 – Amendment to Yard Entry and Exit Balise Groups in Portion 2, Area 1 (Hornsby)

TfNSW refers to Alstom's letter referenced above dated 4 February 2020, wherein Alstom submitted a detailed estimate of the costs and time to amend the Contract Material for yard entry and exit balise groups in Hornsby, Portion 2 Area 1 in response to TfNSW's variation proposal request (VPR) no. 4 ref. 6395950 dated 19 December 2019.

Further to your letter noted above, TfNSW advises that it has assessed the time and cost impact, and pursuant to clause 16.2 of the Agreement, issues variation no. 4 to Alstom to perform additional scope of Services as per below:

Scope of Variation:

Amend the Contract Material for Portion 2 associated with Yard Entry and Exit Balise Groups in Hornsby, Area 1 in accordance with the requirements as per enclosed documents.

Variation Amount:

In accordance with clause 16.3(b) of the Agreement, the variation amount is valued using the hourly rates set out in Schedule 6 of the Agreement. Please refer to table 1 below for breakdown of the variation amount:

Table 1

Role	Hourly Rate	Total Hours	Amount (AUD)	
Project Management				
Design Manager				
Data Preparation Engineer				
Data Preparation Manager			S	
Data Validation Engineer				
Data Validation Manager				
Independent Peer Reviewer				
System Assurance				
Total Variation Amount	\$64,596.26			

Infrastructure & Place

Automatic Train Protection Program

Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067,

Locked Bag 6501, St Leonards NSW 2065.

T (02) 9200 0200



Adjustment to the Fee:

The Fee will be adjusted by a lump sum amount of 64,596.26 (excl. GST). Please refer to table 2 below for breakdown of the revised Fee:

Table 2

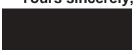
Revised Fee	\$25,185,796.76
This Variation 4 – Amendment to Yard Entry & Exit Balise Group at Hornsby Portion 2, Area 1	\$64,596.26
Variation 3 - Unproductive Man-hours for 1 July 2019 - 31 October 2019	\$362,765.00
Variation 2 - Unproductive Man-hours for 1 April 2019 – 30 June 2019	\$504,400
Variation 1 - Reworks to Area 1 Portion 1	\$80,447.44
Option – Data Design Resources for Area 7	\$735,123.20
Original Fee	\$23,438,464.86

Extension of Time to Portion 2 Completion

Pursuant to clause 18.5 of the Agreement, TfNSW grants an extension of time to the Date for Completion and the revised Date for Completion of Portion 2 is 12 May 2020.

TfNSW requests Alstom to accept this variation 4 by signing in the space provided below return its entirety and signed copy in to Anna (anna.denk@transport.nsw.gov.au).

Yours	sincere	ly,
-------	---------	-----



Himesh Nair Principal's Representative

Dated:

Attachments:

- a. High level requirements;
- b. d00900011_v8i North Shore Line Hornsby Signalling Plan v2.6 Approved 20;
- c. ET(009)-AMS-AREA-1.3-Control Tables v(3.1) Approved 20191001
- d. TfNSW AMS DPP

Variation 4 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd:

Signature:	
Name (print):	
Position:	 -
Date:	

6433778 2 of 2



AIstom Ref: 6453262

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear ,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9

TfNSW makes reference to Alstom's letter referenced above dated 4 February 2020, wherein Alstom submitted a detailed estimate of the costs associated with the Mission Files generation for Areas 1, 6, 7, 8 and 9 in response to TfNSW's variation proposal request ('VPR') no. 2 ref. 6345230 dated 18 September 2019.

Further to your letter noted above, TfNSW advises that it has assessed the cost impact, and pursuant to clause 16.2 of the Agreement, issues variation no. 5 to Alstom to perform the additional scope of Services as per below:

Scope of Variation:

Prepare the programmed Balise Equipment Programming Tool (BEPT) and configuration keys for each individual circuit book ('Mission Files'). Submit the Mission Files as part of the Contract Materials for Portions 19, 20 and 21.

Date for Completion:

There is no adjustment to the Date for Completion to Portions 19, 20 and 21 arising from this variation.

Variation Amount:

In accordance with clause 16.3(b) of the Agreement, the variation amount is valued using the hourly rates set out in Schedule 6 of the Agreement. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Submission Portion	Area(s)	Circuit Book Count	DPE Hours	DPE Rate	DPM Hours	DPM Rate	Price (AUD)
Portion 19 (as- built/CCB 5 Pack for Portion 1 to 4)	Area 1	-			I		
Portion 20 (as- built/CCB 5 Pack for Portion 5 to 11)	Area 6					ž 2	
	Area 7				Ī		
	Area 8						



Submission Portion	Area(s)	Circuit Book Count	DPE Hours	DPE Rate	DPM Hours	DPM Rate	Price (AUD)
Portion 21 (as- built/CCB 5 Pack for Portion 12 to 18)	Area 9						
Total Variation A	mount						\$52,242.40

Adjustment to the Fee:

The Fee will be adjusted by a lump sum amount of \$52,242.40 (excl. GST). Please refer to table 2 below for breakdown of the revised Fee:

-				-
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	-	ы		- 46

Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Area 1 Portion 1	\$80,447.44
Variation 2 - Unproductive Man-hours for	\$504,400.00
Variation 3 - Unproductive Man-hours for	\$362,765.00
Variation 4 – Amendment to Yard Entry & Exit Balise Group at Hornsby Portion 2, Area 1	\$64,596.26
This Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Revised Fee	\$25,238,039.10

TfNSW requests Alstom to accept this variation no. 5 by signing in the space provided below and return a signed copy in its entirety to Anna Denk (anna.denk@transport.nsw.gov.au).

Yours sincerely.	
Himesh Nair Principal's Representative	Dated:
Variation 5 is accepted for and on behalf of	
Signature:	
Name (print):	
Position:	
Date:	



ATP Letter Ref: 6440827 Alstorn Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:		
Dear	1	

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation 6 - Non-Productive Man-Hours Costs (November 2019 to February 2020)

TfNSW makes reference to the following correspondence wherein Alstom submitted claims, under clause 3.1B(g) of the Agreement, for extra costs incurred by Alstom resulting from the delays in receiving the Design Package(s) by the relevant Design Due Date(s) under the Agreement:

1.	Alstom's letter referenced incurred between November 2019 at	dated 10 February 2020, for costs nd December 2019,
2.	Alstom's letter referenced in January 2020, and	dated 3 March 2020, for costs incurred
3.	Alstom's letter referenced incurred in February 2020.	dated 18 March 2020, for costs

Further to above, TfNSW advises that it has verified timesheets of the Data Design Personnel provided by Alstom in support of the non-productive man-hours. TfNSW has valued the claims for extra costs pursuant to clause 16.3 of the Agreement and approves for payment of these costs.

In accordance with the provisions of clause 3.1B(g) and pursuant to clause 16.2 of the Agreement, TfNSW issues a variation to compensate Alstom for the extra costs of the unproductive man-hours of the Data Design Personnel during the period between 1 November 2019 and 29 February 2020 (refer to table 1 below) and adjusts the Fee by a lump sum amount of \$651,040.00 (excl. GST).

Table 1

Month	Unproductive Man-hours	Rate (schedule 6 of the Agreement)	Amount
November 2019			
December 2019			
January 2020			
February 2020			
	Total Vari	ation Order 6 Amount	\$651,040.00

Infrastructure & Place

Automatic Train Protection Program

Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067.

Locked Bag 6501, St Leonards NSW 2065.

T (02) 9200 0200



Adjustment to the Fee:

The Fee will be adjusted by a lump sum amount of \$651,040.00 (excl. GST). Please refer to table 2 below for the breakdown of the revised Fee:

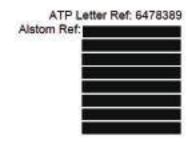
Table 2

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 (Reworks to Portion 1 Contract Material)	\$80,447.44
Variation 2 (Unproductive man-hours cost April 2019 – June 2019)	\$504,400.00
Variation 3 (Unproductive man-hours cost July 2019 – October 2019)	\$362,765.00
Variation 4 (Amendment to Yard Entry and Exit Balise Groups at Hornsby – Portion 2, Area 1)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
This Variation 6 (Unproductive man-hours cost November 2019 – February 2020)	\$651,040.00
Revised Fee	\$25,889,079.10

TfNSW requests Alstom's acceptance of this variation 6 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna Denk@transport.nsw.gov.au).

Yours sincerely,	
Yik Yen Chong Principal's Representative	Dated:
Variation 6 is accepted for and on behalf of Als	tom Transport (Australia) Pty Ltd:
Signature:	
Name (print):	
Position:	
Date:	





Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 7 – Reworks to the Contract Material for Portions 1 to 4

TfNSW makes reference to Alstom's multiple letters referenced above wherein Alstom has submitted a detailed breakdown of the costs and an extension of time claim to the Date for Completion of Portions 1 to 4, arising from the change in the Signalling Design for Portions 1 to 4 that has resulted in reworks to the Contract Material for Area 1 ("Variation Proposals").

Further to the above, TfNSW advises that it has assessed the time and cost impact associated with the various Variation Proposals and pursuant to clause 16.2 of the Agreement issues variation no. 7 to Alstom as detailed below:

Scope of Variation:

Perform reworks to the Contract Material for Portions 1 to 4 due to changes in the Signalling Design and the additional scope of Services as issued / directed by TfNSW in their letters noted below:

Signalling Design	TfNSW letter ref.	Date Issued
Portion 1 - Signalling Plan Package 1 & Sig	nalling Pack	age 1
Hornby to Berowra - MOD-002	6350350	23 September 2019
Hornby to Berowra - MOD-003	6443252	6 April 2020
Level Transition Removal – Stage Works – Area 1 and Area 2 Integration	. 6441592	30 March 2020
Portion 2 - Signalling Plan Package 2 & Sig	nalling Pack	age 2
Homsby MOD-001	6433387	4 March 2020
Portion 3 - Signalling Plan Package 3 & Sig	nalling Pack	age 3
Eastwood to Normanhurst MOD-002	6422906	6 February 2020
Portion 4 - Signalling Plan Package 4 & Sig	nalling Pack	age 4
North Strathfield to Concord West	6379348	20 November 2019
Concord West to Eastwood (MOD-001)	6438346	18 March 2020
Concord West to Eastwood (MOD-002)	6444780	14 April 2020

Infrastructure & Place

Automatic Train Protection Program

Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067.

Locked Bag 6501, St Leonards NSW 2065,

T (02) 9200 0200

ABN: 18 804 239 602



Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Portion	Area	Geographical Location	MOD#	Variation Price
		MOD#002		
Portion 1	Area 1.4	Hornsby (excl.) and	MOD#003	
Alea 1.4	Berowra (incl.)	Level Transition Removal		
Portion 2 Area 1.3	Hornsby	MOD#001	Į.	
		Q Link		
Portion 3	Area 1.2	Eastwood (excl.) and Beecroft (excl.)	MOD#002	
Portion 4 Area 1.1	Concord West (incl.) and	MOD#001		
	Area 1 1	Eastwood (incl.)	MOD#002	
	Aled I.I	North Strathfield (incl.) and Concord West (incl.)	MOD	
		Tot	al Area 1 Reworks	\$508,112.9

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$508,112.99 (excl. GST) to a total value of \$26,397,192.09 as described in table 2 below:

Table 2

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
This Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Revised Fee	\$26,397,192.09



Extension of Time:

Pursuant to clause 18.5 (c) of the Agreement, TfNSW grants an extension of time to the Date for Completion of Portions 1 to 4 as stated in table 3 below:

Table 3

Portion	Current Date for Completion	Revised Date for Completion
Portion 1		
Portion 2	E 1	1
Portion 3		
Portion 4		

TfNSW requests Alstom's acceptance of this variation 7 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna, Denk@transport.nsw.gov, au).

Yours sincerely,	
Yik Yen Chong	
Principal's Representative	Dated:
Variation 7 is accepted for and on behalf of Alst	om Transport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	

6478389 3 of 3



ATP Letter Ref: 6484105 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear Michael,

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31

May 2020)

TfNSW makes reference to the above correspondence, dated 12 May 2020, 27 May 2020, 10 June 2020 respectively, wherein Alstom submitted claims, pursuant to clause 3.1B(g) of the Agreement, for extra costs of Data Design Personnel ("Non-Productive Man-Hours Costs") incurred by Alstom between 1 March 2020 and 31 May 2020 due to the delays in receiving the Design Packages by the relevant Design Due Dates under the Agreement.

Further, TfNSW acknowledges that Alstom has provided timesheets of the Data Design Personnel in support of the Non-Productive Man-Hours Costs for our verification.

TfNSW advises it has assessed the above mentioned extra costs and in accordance with the provisions of clause 3.1B(g) and pursuant to clause 16.2 of the Agreement issues this variation no. 8 to compensate Alstom for the Non-Productive Man-Hours Costs incurred between 1 March 2020 and 31 May 2020.

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the lump sum variation amount of \$773,811.00 is valued by using the hourly rate set out under Schedule 6 - 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Month	Non-Productive Man-Hours	Hourly Rate, \$	Amount, \$
March 2020			
April 2020	2.5		
May 2020			
otal Variation no.	8 Amount		\$773,811.84

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$773,811.84 (excl. GST) to a total value of \$27,171,003.93 as described in table 2 below:



Table 2

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
This Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Revised Fee	\$27,171,003.93

TfNSW requests Alstom's acceptance of this variation no. 8 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna Denk

Yours sincerely,	
Yik Yen Chong Principal's Representative	Dated:
Variation no. 8 is accepted for and on behalf of Alstom Tr	ansport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	



ATP Letter Ref: 6492834 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation No. 9 – Revised Scope of Services - Fixed Balise Solution

Areas 6, 7.2 and 8

TfNSW makes reference to Alstom's letter referenced above, dated 10 September 2020, wherein Alstom submitted a detailed breakdown of the costs and an extension of time claim to the Date for Completion of Portions 5 to 18 and Portions 20 to 21 pertaining to Areas 6, 7.2, 8 and 9 arising from a change in the Signalling Design input to a Fixed Balise solution ('Revised Scope of Services').

Further to the above, TfNSW advises that it has assessed the time and cost impact associated with the Revised Scope of Services for Portions 5 to 11 and Portion 20 pertaining to Areas 6, 7.2 and 8 and pursuant to clause 16.2 of the Agreement issues variation no. 9 to Alstom as detailed below.

TfNSW notes that the time and cost impact associated with the Revised Scope of Services for Portions 12 to 18 and Potion 21 pertaining to Area 9 is still under assessment. A separate variation will be issued for this to Alstom in due course.

Scope of Variation:

Amend the scope of Services for Portions 5 to 11 and Portion 20 based on the Fixed Balise solution resulting from the change in the Signalling Design for Areas 6, 7.2 and 8.

Further, TfNSW encloses the following documents associated with the revised scope and requests Alstom to comply with these documents in the provision of the Services:

- Attachment A AMS Trackside Sub-Systems Requirements Specification Fixed BG Solution version 1.0
- Attachment B Area 6&8 Functional Specification,
- Attachment C Area 7.2 Functional Specification,
- Attachment D Revised Design Due Dates for Portions 5 to 11, and
- Attachment E Revised Milestone Dates for Portions 5 to 11 and Portion 20.

Variation Amount:

Pursuant to clause 16.1 (e) of the Agreement, Alstom has provided a written estimate of the time, cost and programming effects of the proposed variation. The value of the variation has been determined by an agreement between TfNSW and Alstom in accordance with clause 16.3 (a) of the Agreement based on the TfNSW's assessment and acceptance of the provided estimated amount.

Infrastructure & Place

Automatic Train Protection Program
Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067.
Locked Bag 6501, St Leonards NSW 2065.

T (02) 9200 0200
ABN: 18 804 239 602



As such, the total variation amount is \$156,112.60 (excl. GST) as detailed in Attachment F contained the revised payment schedule for Areas 6, 7.2 and 8 and corresponded to the complete breakdown of the variation amount.

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$156,112.60 (excl. GST) to a total value of \$27,327,116.53 as described in table 1 below:

Table 1

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
This Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Revised Fee	\$27,327,116.53

Extension of Time:

Pursuant to clause 18.5 (c) of the Agreement, TfNSW grants an extension of time to the Date for Completion of Portions 5 to 11 and Portion 20 as stated in table 2 below:

Table 2

Portion Current Date for Completion		Revised Date for Completion
Portion 5		
Portion 6		
Portion 7		
Portion 8		



Yours sincerely.

Portion	Current Date for Completion	Revised Date for Completion
Portion 9		
Portion 10		
Portion 11		
Portion 20		

TfNSW requests Alstom's acceptance of this variation no. 9 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna,Denk@transport.nsw.gov.au).

Yik Yen Chong Principal's Representative	Dated: 14/09/2020
Attachments: As above	
Variation no. 9 is accepted for and on behalf of Alstom	Transport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	

6492834 3 of 3



ATP Letter Ref: 6496037 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation 10 – Reworks to the Contract Material for Portion 11
Katoomba to Mt Victoria

TfNSW makes reference to Alstom's letter referenced above, dated 7 July 2020, wherein Alstom submitted a detailed breakdown of the costs and time impact associated with the revised Site Certification Form ('SCF') for Portion 11 (Area 7.2) for the geographical location between Katoomba (excl.) and Mt Victoria (incl.) ('MOD-001').

Further to the above, TfNSW advises that it has assessed and accepted the cost impact associated with the MOD-001 and pursuant to clause 16.2 of the Agreement issues variation no. 10 to Alstom as per below.

Scope of Variation:

Perform the reworks to the Data Design Contract Material associated with Portion 11 (Area 7.2) for Circuit Book 123 for the geographical location between Katoomba (excl.) and Mt Victoria (incl.) arising from the changes to Signalling Package 11, in particular, in the approved commissioning copy of the SCF transmitted via TeamBinder ref. no. ATP-TFNSW-ALS-CORR-000175 on 5 May 2020.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Hourly Rate	Price, \$
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer	- 1 T		
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total Variation	Amount	(4 A)	\$ 92,273.28

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$92,273.28 (excl. GST) to a total value of \$27,419,389.81 as described in table 2 below:

Infrastructure & Place



Table 2

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
This Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Revised Fee	\$27,419,389.81

Production of the Control	William Co.	-	100 B 100 B	diam'r.
Date	TOT	Com	ıblet	tion:

There is no impact to the Date for Completion of Portion 11 arising from this variation. The current Date for Completion of Portion 11 is detailed in TfNSW's correspondence ref. 6492834, dated 14 September 2020.

TfNSW requests Alstom's acceptance of this variation no. 10 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna,Denk@transport.nsw.gov.au).

Yours sincerely,		
Yik Yen Chong Principal's Representative	Dated:	14/09/2020
Variation 10 is accepted for and on behalf of Alsto	m Transport (Australia) Pty	Ltd:
Signature:		
Name (print):		
Date:		



ATP Letter Ref: 6522454 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation 11 – Amendment to Yard Entry and Exit Balise Groups - Area 1
Portion 3 – Epping

TfNSW makes reference to Alstom's letter referenced above, dated 25 September 2020, wherein Alstom submitted a detailed breakdown of the costs and time impact associated with the amended Scope of Services for Yard Entry and Exit Balise Groups ('Q-link') in Area 1, in particular with a new Balise Group for Portion 3 at Epping ('Additional Services').

Further to the above, TfNSW advises that it has assessed and accepted the cost impact associated with the Additional Services and pursuant to clause 16.2 of the Agreement issues variation no. 11 to Alstom as per below.

Scope of Variation:

Perform Data Design works for the new Balise Group at Epping associated with Portion 3 (Area 1) for the geographical location between Eastwood (excl.) and Normanhurst (incl.) which is also impacted by the provided Q-link modification in Area 1. The Additional Services are arising from the amended Scope of Services for Area 1 Q-link transmitted via TeamBinder ref. no. ATP-TFNSW-ALS-CORR-000184 on 12 June 2020, attached.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Hourly Rate	Price, \$
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total Variation	Amount	0	\$ 53,351.52

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$53,351.52 (excl. GST) to a total value of \$27,472,741.33 as described in table 2 below:

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Table 2

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
This Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Revised Fee	\$27,472,741.33

Date for Completion:

The time impact to the Date for Completion of Portion 3 arising from this variation is under TfNSW's assessment. TfNSW endeavours to grant an extension of time to the Date for Completion of Portion 3 in due course. The current Date for Completion of Portion 3 is as detailed in TfNSW's correspondence ref: 6478389, dated 21 July 2020.

TfNSW requests Alstom's acceptance of this variation no. 11 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna.Denk@transport.nsw.gov.au).

Yours sincerely,

Yik Yen Chong Principal's Representative

Attachments: As noted above

6522454 2 of 2

Dated:



Variation 11 is accepted for and on behalf	f of Alstom Transport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	

6522454 3 of 2



ATP Letter Ref: 6523614 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear .

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation 12 – Reworks to the Contract Material for Portion 4 Signalling Package 4 - Concord West to Eastwood – MOD-003

TfNSW makes reference to Alstom's letter referenced above, dated 25 September 2020, wherein Alstom submitted a detailed breakdown of the costs and time impact associated with the revised Authorised Engineering Organisation ('AEO') copy of the Signalling Package 4 ('MOD-003') for Portion 4 (Area 1) for the geographical location between Concord West (excl.) and Eastwood (incl.).

Further to the above, TfNSW advises that it has assessed and accepted the cost impact associated with MOD-003 of the afore-noted Signalling Design and pursuant to clause 16.2 of the Agreement issues variation no. 12 to Alstom as per below.

Scope of Variation:

Perform reworks to the Contract Material for Portion 4 (Area 1) for the geographical location between Concord West (excl.) and Eastwood (incl.) due to changes in Signalling Package 4 transmitted via TeamBinder ref. ATP-TFNSW-ALS-TX-000113 on 10 June 2020 and as directed by TfNSW in its letter ref. 6468018, dated 17 June 2020, as detailed in Attachment A.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Hourly Rate	Price, \$	
Data Preparation Engineer				
Data Preparation Manager				
Data Validation Engineer				
Data Validation Manager				
System Assurance				
Independent Professional Review				
Design Management				
Total Variation	Amount		\$ 103,947.03	

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$103,947.03 (excl. GST) to a total value of \$27,576,688.36 as described in Attachment B.

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Date for Completion:

The time impact to the Date for Completion of Portion 4 arising from this variation is under TfNSW's assessment. TfNSW endeavours to grant an extension of time to the Date for Completion of Portion 4 in due course. The current Date for Completion of Portion 4 is as detailed in TfNSW's correspondence ref: 6478389, dated 21 July 2020.

TfNSW requests Alstom's acceptance of this variation no. 12 by signing in the space provided below and returning a signed copy in its entirety to Anna Denk (Anna Denk@transport.nsw.gov.au).

Yours sincerely,	
Yik Yen Chong Principal's Representative	Dated:
Variation 12 is accepted for and on behalf of Als	tom Transport (Australia) Pty Ltd:
Name (print):	
Position:	
Date:	



Attachment A - Revised Signalling Plan

Item	Document No	Rev	Status	Title	
1	ATP-BSMA-EM- 000075	5	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (Incl.) - Signalling Plan - AEO APPROVED - MOD-001	
2	ATP-BSMA-EM- 000076	7	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - Site Certification Form - AEO APPROVED - MOD-002	
3	ATP-BSMA-EM- 000077	5	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - ETCS Tables - AEO APPROVED - MOD-001	
4	ATP-BSMA-EM- 000078	5	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - Gradient Output Table AEO APPROVED	
5	ATP-BSMA-EM- 000130	5	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - Design Package Repo AEO APPROVED - MOD-002	
6	ATP-BSMA-EM- 000131	3	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - ERA Tool Calculations - AEO APPROVED	
7	ATP-BSMA-EM- 000755	88	AEA	A1 - M7 & M8 - Concord West (excl.) - Eastwood (incl.) - DRS v1.0	

6523614 3 of 4



Attachment B - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
This Variation 12 - Reworks to the Contract Material for Portion 4 Signalling Package 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Revised Fee	\$27,576,688.36

6523614 4 of 4



ATP Letter Ref: 6522289 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 13 – Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)

TfNSW makes reference to Alstom's above referenced correspondence, dated 29 September 2020, 29 September 2020, 25 September 2020 respectively, wherein Alstom submitted claims for costs associated with the Data Design Personnel ('Non-Productive Man-Hours Costs') incurred by Alstom between 1 June 2020 and 31 August 2020 due to the delays in receiving the Design Packages by the relevant Design Due Dates under the Agreement and due to Signalling Design modifications..

Further, TfNSW acknowledges that Alstom has provided timesheets of the Data Design Personnel in support of the Non-Productive Man-Hours Costs for its verification.

TfNSW advises it has assessed the above mentioned claim and in accordance with the provisions of clause 3.1B(g) and pursuant to clause 16.2 of the Agreement, issues this variation no. 13 to Alstom for the Non-Productive Man-Hours Costs incurred between 1 June 2020 and 31 August 2020.

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the lump sum variation amount of \$205,081.28 is valued by using the hourly rate set out under Schedule 6 - 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Month	Non-Productive Man-Hours	Hourly Rate, \$	Amount, \$
June 2020			j. 9
July 2020			N 2
August 2020			"
Total Variation n	o. 13 Amount		\$205,081.28

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$205,081.28 (excl. GST) to a total value of \$27,781,769.64 as described in table 2 below:

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Table 2

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material (Portions 1 to 4)	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
This Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Revised Fee	\$27,781,769.64

TfNSW requests Alstom's acceptance of this variation no. 13 by signing in the space provided on the following page and returning a signed copy in its entirety to Anna Denk (Anna, Denk@transport.nsw.qov.au).

Yours sincerely,

Yik Yen Chong

Principal's Representative

Dated:



Variation no.	13 is accepted for	and on behalf of Als	tom Transport (Austral	ia) Pty Ltd:
Signature:		_		
Name (print):	1	L		
Position:				
Date: _				



A	TP Letter Ref: 6524	944
Aistom	Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation 14 – Amendment to Yard Entry and Exit Balise Groups

Portion 5 to Portion 10 (Areas 6 and 8)

TfNSW makes reference to Alstom's letter referenced above, dated 25 September 2020, wherein Alstom has submitted a detailed variation proposal, in response to TfNSW's variation proposal request no. 7 (letter ref. 6461381 dated 27 May 2020).

TfNSW advises that it has assessed the variation proposal noted above and pursuant to clause 16.2 of the Agreement, issues variation no. 14 to Alstom to vary the Agreement as per below.

Scope of Variation:

Perform the additional scope of Services required to amend the Contract Material for Portions 5 to 10 to incorporate the changes to Yard Entry and Exit Balise Groups ('Q-link') in accordance with document ref. 6461562 – 'Area 6&8: Yard BGs entry and exit Scope of Work for Q-link' (Additional Services).

Variation Amount:

The variation amount for the Additional Services is \$27,314.04 (excl. GST) which is valued in accordance with clause 16.3(b) of the Agreement using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a detailed breakdown of the variation amount:

Table 1

Role	Hours	Hourly Rate	Amount, \$
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Total Variation Amount			\$ 27,314.04

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200

ABN: 18 804 239 602



Adjustment to the Fee:

The revised Fee is \$27,809,083.68, please refer to Attachment 1 for complete breakdown of the revised Fee.

Date for Completion:

There is no impact to the Date for Completion of Portions 5 to 10 arising from this variation.

TfNSW requests Alstom's acceptance of this variation no. 14 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton, Mutombeni@transport.nsw.gov,au).

Yik Yen Chong
Principal's Representative
Attachments: As above

Variation 14 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd:

Signature:

Position:

Date:



Attachment 1 - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood - MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
This Variation 14 – Yard Entry and Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$ 27,314.04
Revised Fee	\$27,809,083.68



AT	P Letter	Ref:	6525282
Aistom F	Cof		- 3

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dearwood,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation 15 – Amendment to Yard Entry and Exit Balise Groups

Portion 11 (Area 7.2)

TfNSW makes reference to Alstom's letter referenced above, dated 25 September 2020, wherein Alstom submitted a detailed variation proposal, in response to TfNSW's variation proposal request no. 8 (letter ref. 6466600 dated 15 June 2020).

TfNSW advises that it has assessed the variation proposal noted above and pursuant to clause 16.2 of the Agreement, issues variation no. 15 to Alstom to vary the Agreement as per below.

Scope of Variation:

Perform the additional scope of Services required to amend the Contract Material for Portion 10 to incorporate the changes to Yard Entry and Exit Balise Groups ('Q-link') in accordance with document ref. 6466419 – 'Q_Link BG Scope Area 7.2' (Additional Services).

Variation Amount:

The variation amount for the Additional Services is \$6,303.24 (excl. GST) which is valued in accordance with clause 16.3(b) of the Agreement using the hourly rates set out under Schedule 6 — 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a detailed breakdown of the variation amount:

Table 1

Role	Hours	Hourly Rate	Amount, \$
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Total Variation	n Amount		\$ 6,303.24

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200

ABN: 18 804 239 602



Adjustment to the Fee:

The revised Fee is \$27,815,386.92, please refer to Attachment 1 for complete breakdown of the revised Fee.

Date for Completion:

There is no impact to the Date for Completion of Portion 11 arising from this variation.

TfNSW requests Alstom's acceptance of this variation no. 15 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton Mutombeni@transport.nsw.gov.au).

Yours sincerely,	
Yik Yen Chong Principal's Representative	Dated:
Attachments: As above	
Variation 15 is accepted for and on behalf of Alst	om Transport (Australia) Pty Ltd:
Signature:	
Name (print):	
Position:	
Date:	



Attachment 1 - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood - MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Variation 14 – Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$ 27,314.04
This Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$ 6,303.24
Revised Fee	\$27,815,386.92



ATP Letter Ref: 6538416 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear .

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')
Subject: Variation No. 16 – Portion 6 (Area 6.2) Authorised Engineering

Organisation (AEO) Signalling Design Changes (MODs)

TfNSW makes reference to Alstom's letter referenced above where Alstom submitted a detailed breakdown of the costs, arising from the changes in the Signalling Design for Portion 6 as summarised in table 1 below that has resulted in reworks to the Contract Material for Portion 6 ('Variation Proposal').

Further to the above, TfNSW advises that it has assessed the time and cost impact associated with the Variation Proposal and pursuant to clause 16.2 of the Agreement issues variation no. 16 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material and perform the additional scope of Services pertaining to Portion 6 due to changes in the Signalling Design as issued by TfNSW in their letters noted below:

Table 1

Signalling Design	TfNSW letter ref.	Date Issued
Portion 6 - Riverstone to Richmond		
Mulgrave to Richmond - MOD-001	6490876	26 August 2020
Blacktown to Rooty Hill - MOD-001	6490858	26 August 2020
Riverstone to Mulgrave MOD-001	6492603	28 August 2020
Rooty Hill - St Mary's MOD-001	6495571	2 September 2020
St Mary's to Emu Plains MOD-001	6495583	2 September 2020
Rooty Hill - St Mary's MOD-003	6501176	14 September 2020

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 2 below for a breakdown of the variation amount:

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer	Ī		
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
		Total	\$ 28,535.6

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$28,535.67 (excl. GST) to a total value of \$27, 843,922.59 as detailed in Annexure 1.

Date	for	Com	pleti	on:
	1.00		Sec. 11.	~ 111

The revised date for completion of Portion 6 arising from this variation is ________.

TfNSW notes there is no adjustment to the preliminaries or Fee resulting from this extension of time.

TfNSW requests Alstom's acceptance of this variation 16 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (brighton.mutombeni@transport.nsw.gov.au).

Yours sincerely,	
Yik Yen Chong	
Principal's Representative	Dated:
Variation 16 is accepted for and on behalf of Alst	om Transport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	



Annexure 1 - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 – June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5 - 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
This Variation 16 - Portions 6 MOD-001 and MOD-003 Signaling Design Changes	\$28,535.67
Revised Fee	\$27,843,922.59



ATP Letter Ref: 6538723 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 17 – Portion 6 Data Design of Additional Balise Groups
CB117 Level Transition Removal

TfNSW makes reference to Alstom's letter referenced above dated 25 November 2020, in response to TfNSW's variation proposal request number 10 (VPR#10) letter ref. 6517701 dated 10 October 2020, wherein Alstom submitted a variation proposal with detailed breakdown of the costs, arising from the changes in the Design Package for Portion 6 that has resulted in reworks to the Contract Material ("Variation Proposal").

Further to the above, TfNSW advises that it has assessed the time and cost impact associated with the Variation Proposal and pursuant to clause 16.2 of the Agreement issues variation no. 17 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material and perform the additional scope of Services pertaining to Portion 6 due to changes in the data design as issued by TfNSW in their letter noted above:

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
		Total	\$ 30,816.84

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$30,816.84 (excl. GST) to a total value of \$27,874,739.43 as detailed in Annexure 1.

Date for Completion	eletion:
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TfNSW requests Alstom's acceptance of this variation 17 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (brighton.mutombeni@transport.nsw.gov.au).

Yours sincerely,	
rik Yen Chong Principal's Representative	Dated:
/ariation 17 is accepted for and on behalf of Alsi	om Transport (Australia) Pty Ltd:
Signature:	
lame (print)	
Position:	
Date:	



Annexure 1 - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 – June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signaling Design MODs	\$28,535.67
This Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Revised Fee	\$27, 874, 739.43



ATP Letter Ref: 6544889 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 18 – Portion 2 Hornsby (MOD-002) NIT Defects

TfNSW makes reference to Alstom's letter referenced above dated 16 December 2020, where Alstom has submitted a variation proposal to amend the Contract Material for Portion 2 due to changes in the Design Package of Area 1.3 (Hornsby), arising from the revised Signalling Design (MOD-002) issued by TfNSW under their letter ref. 6489025 dated 18 August 2020.

Further to the above, TfNSW advises that it has assessed the above variation proposal and pursuant to clause 16.2 of the Agreement issues variation no. 18 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material and perform the additional scope of Services pertaining to Portion 2 due to changes in the Signalling Design (MOD-002) as issued by TfNSW in their letter noted above:

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Rate	Amount
Data Preparation Engineer	126		S
Data Preparation Manager	72		\$
Data Validation Engineer	41		\$
Data Validation Manager	15		\$
System Assurance	36		S Total
Independent Professional Review	46		S
Design Management	34		\$
N.=	1/	Total	\$ 96,533.97



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$96,533.97 (excl. GST) to a total value of \$27,971, 273.30 as detailed in Annexure 1.

Date for Completion:

The revised Date for Completion of Portion 2 arising from this variation is under assessment and a separate extension of time will be issued in due course.

TfNSW requests Alstom's acceptance of this variation 18 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (brighton,mutombeni@transport.nsw.gov.au).

Yours sincerely,	
Yik Yen Chong Principal's Representative	Dated:
ariation 18 is accepted for and on behalf of Alst	om Transport (Australia) Pty Ltd:
Signature:	
Name (print)	
Position:	
Date:	



Annexure 1 - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081,28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signaling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
This Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.87
Revised Fee	\$27, 971, 273.30



ATP Letter Ref: 6555619 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear .

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 19 – Non-Productive Man-Hours Costs (1 September 2020 to 31 December 2020)

TfNSW makes reference to Alstom's above referenced correspondence, dated 7 December 2020, 3 November 2020, 7 January 2020 and 19 January 2021 respectively, where Alstom submitted claims, pursuant to clause 3.1B(g) of the Agreement, for extra costs of Data Design Personnel ('Non-Productive Man-Hours Costs') incurred by Alstom between 1 September 2020 and 31 December 2020 due to the delays in receiving the Design Packages by the relevant Design Due Dates under the Agreement.

Further, TfNSW acknowledges that Alstom has provided timesheets of the Data Design Personnel in support of the Non-Productive Man-Hours Costs for TfNSW's verification.

TfNSW advises it has assessed the above mentioned extra costs and in accordance with the provisions of clause 3.1B(g) and pursuant to clause 16.2 of the Agreement issues this variation no. 19 to compensate Alstom for the Non-Productive Man-Hours Costs incurred between 1 September 2020 and 31 December 2020.

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the lump sum variation amount of \$592,515.76 is valued by using the hourly rate set out under Schedule 6 - 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Month	Non-Productive Man-Hours	Hourly Rate, \$	Amount, \$
September 2020			
October 2020			
November 2020			
December 2020			
otal Variation no. 1	\$592,515.76		

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$592,515.76 (excl. GST) to a total value of \$28, 563,789.06 as described in Attachment A.

Infrastructure & Place

Automatic Train Protection Program

Level 5, Zenith Centre, Tower A, 821 Pacific Highway, Chatswood NSW 2067.

Locked Bag 6501, St Leonards NSW 2065.

T (02) 9200 0200

ABN: 18 804 239 602



TfNSW requests Alstom's acceptance of this variation no. 19 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton Mutombeni@transport.nsw.gov.au).

Yours sincerely,		
Sarah Grant		
Principal's Representative Attachments: Attachment A – Revised Fee	Dated:	01/02/2021
Variation no. 19 is accepted for and on behalf of Als	stom Transport (Australia)	Pty Ltd:
Signature:		
Name (print):_		
Position:		



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 – June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signaling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533,97
This Variation 19 - Non-Productive Man-Hours Costs (1 September 2020 to 31 December 2020)	\$592,515.76
Revised Fee	\$28, 563, 789.16



ATP Letter Ref: 6552694 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear .

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 20 – Portion 8 (Fairfield – Sefton Park – Liverpool)

Sefton Park Speed Sign Changes (MOD-001)

TfNSW makes reference to Alstom's letter referenced above dated 29 January 2021, where Alstom has submitted a variation proposal to amend the Contract Material for Portion 8 due to changes in the Design Package of Area 8.3 (Fairfield – Sefton Park – Liverpool), arising from the speed sign changes (MOD-001) issued by TfNSW under letter ref. 6544434 dated 16 December 2020.

Further to the above, TfNSW acknowledges that MOD-001 has resulted in additional scope of Services and constitutes a variation under the Agreement. Furthermore, TfNSW advises that it has assessed Alstom's variation proposal above and pursuant to clause 16.2 of the Agreement issues variation no. 20 to Alstom as detailed below.

Scope of Variation:

Amend the Contract Material and perform the additional scope of Services pertaining to Portion 8 (Fairfield – Sefton Park – Liverpool) due to changes in the Signalling Design (MOD-001) as detailed in Attachment A and issued under TfNSW's above reference letter.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is \$ 84,858.87 as detailed in table 1 below:

Table 1

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
		Total	\$ 84,858.87

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$84,858.87 (excl. GST) to a total value of \$27,970, 273.30 as detailed in Annexure 1.

Date for Completion:

TfNSW notes that the validated copy of the revised Contract Material for Portion 8 (Fairfield – Sefton Park – Liverpool) i.e. circuit book (CB) CB022 and CB062 was delivered on 21 January 2021, earlier than planned date of 12 February 2021. As such, TfNSW requests Alstom to submit a revised program for the variation works for our review and assessment.

TfNSW requests Alstom's acceptance of this variation 20 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (brighton mutombeni@transport.nsw.gov.au).

Yours sincerely, Sarah Grant Principal's Representative Attachments: Attachment A - Signalling Design Attachment B - Revised Fee Variation 20 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd: Signature: Name (print): Position:



Attachment A - Signalling Design

ltem	Document No	Rev	Status	Title
1	ATP-BSMA-EM- 000650	4	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - Site Certification Form - JMDR - AEO COPY - MOD-001
2	ATP-BSMA-EM- 000651	4	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - Signalling Plan - JMDR - AEO COPY - MOD-001
3	ATP-BSMA-EM- 000652	4	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - Gradient Output Tables - JMDR - AEO COPY - MOD-001
4	ATP-BSMA-EM- 000653	4	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - ERA Tool Calculations - JMDR - AEO COPY - MOD-001
5	ATP-BSMA-EM- 000654	4	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - ETCS Tables - JMDR - AEO COPY - MOD-001
6	ATP-BSMA-EM- 000782	3	AEA	A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - Design Package Report - JMDR - AEO COPY - MOD-001
7	ATP-BSMA-EM- 000992	1	AEA	(0082 - BRS - TFNSW)_A8 - M13 & M14 - Sefton Park (Incl) - Cabramatta (Excl) - JMDR - AEO COPY- MOD-001_DRS_v1.0
8	ATP-BSMA-EM- 000552	5	AEA	A8 - M14 - Canterbury (Incl) - Yagoona (Incl) - Site Certification Forms - JMDR - AEO COPY - MOD-001
9	ATP-BSMA-EM- 000553	3	AEA	A8 - M14 - Canterbury (incl.) - Yagoona (incl.) - Signalling Plan - JMDR - AEO COPY
10	ATP-BSMA-EM- 000554	5	AEA	A8 - M14 - Canterbury (Incl) - Yagoona (Incl) - ETCS Tables - JMDR - AEO COPY - MOD- 001
11	ATP-BSMA-EM- 000747	4	AEA	A8 - M14 - Canterbury (Incl) - Yagoona (Incl) - Design Package Report - JMDR - AEO COPY - MOD-001
12	ATP-BSMA-EM- 000994	1	AEA	(0081 - BRS - TFNSW)_A8 - M14 - Canterbury (Incl) - Yagoona (Incl) - JMDR - AEO COPY - MOD-001_DRS_v1.0



Attachment B - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April 2019 - June 2019)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 2019 - October 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (1 March 2020 to 31 May 2020)	\$773,811.84
Variation 9 - Revised Scope of Services — Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups - Area 1 Portion 3 — Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (1 June 2020 to 31 August 2020)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signaling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 – Unproductive Man-Hours Claim (Sep' 2020 – Dec' 20)	\$592,515.76
This Variation 20 – Portion 9 Area 8.3 (Fairfield-Sefton Park- Liverpool) MOD-001	\$84,858.87
Revised Fee	\$28,648,648.03

6552694 4 of 4



ATP Letter Ref: 6555948 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 21 – Kangy Angy Maintenance Facility (KAMF) Yard

Entry and Exit Balise Groups Data Design

TfNSW makes reference to TfNSW's variation proposal request, letter ref: 6463715 dated 11 June 2020, under the agreement for AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049) for the abovementioned subject matter; the subsequent discussions between the parties whereby it was agreed that these additional services would be performed under the Agreement for AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580); and Alstom's above referenced proposal, dated 16 December 2020; where Alstom for the detailed breakdown of the costs for KAMF yard entry and exit balise group's data design.

Further to the above, TfNSW advises that it has assessed Alstom's proposal and pursuant to clause 16.2 of the Agreement issues variation no. 21 to Alstom as detailed below.

Scope of Variation (Portion 22):

Provision and incorporation of the Kangy Angy Maintenance Facility (KAMF) Data Design within the ATP SIT area as detailed below (Additional Services):

- 1. The geographical location between Ourimbah to Tuggerah:
 - a) Up MN 91.0km to 100.5km; and
 - b) Dn MN 89.5km to 99.5km.
- 2. Based on the reference concept design (refer Attachments A and B) as part of KAMF ATP modifications to the Contract Materials to include for:
 - a) Approximately 12 x new Balise Groups will be added; and
 - b) Approximately 7 x Balise Groups will be removed.

Note, these quantities may vary based on the final release of the AEO approved signalling design.

Date for Completion and any intermittent milestones:

Pursuant to clause 18.9(a) of the Agreement the Additional Services pertaining to the KAMF yard entry and exit balise group's data design, as detailed in this variation, are to be performed under a new Portion, Portion 22. The Date for Completion of Portion 22 is

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113
PO Box K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



11 May 2021 and the intermittent milestones for the submission of the Contract Materials are as detailed in table 1:

Table 1

Description	Date
Portion 22 - KAMF Validated Data Delivery	
Portion 22 - KAMF CCB4 Assurance Pack Delivery	
Portion 22 – KAMF Date for Completion	

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the lump sum variation amount of \$164,581.05 is detailed in table 2 below:

Table 2

Role	Hours	Unit Rate (excl. GST)	Amount (excl. GST)
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Systems Assurance			
Independent Professional Review			
Design Management			
	Total Va	riation Amount	\$164,581.05

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$164,581.05 (excl. GST) to a total value of \$28,728,370.11 as described in Attachment A.

TfNSW requests Alstom's acceptance of this variation no. 21 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton, Mutombeni@transport.nsw.gov.au).

Dated: 03/02/2021

Yours sincerely,

Sarah Grant Principal's Representative

Attachments:

Attachment A – Revised Fee

KAMF Gosford (EXCL) – Ourimbah (INCL) Drg No. D1310001.DGN SP rev4

KAMF Ourimbah (EXCL) – Warnervele (INCL) Drg No. D12000011.DGN SP rev4



Variation no. 21 is accepted for and on behalf of Alstom Transport (Australia) Pty Ltd:

Signature: _	
Name (print):	
Position:	_
Date:	_

6555948



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signaling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
This Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Revised Fee	\$28,813,229.08

6555948 4 of 4



ATP Letter Ref: 6558901 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear _____,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 22 – Signalling Plan Package 2 and Signalling Package

2 - Revised Design Package (MOD-003) - Area 1.3 Hornsby

TfNSW makes reference to its previous letter ref: 6533174 dated 13 November 2020, where TfNSW issued the revised Signalling Plan Package 2 and Signalling Package 2 – Design Package (MOD-003) for Area 1.3 Hornsby; and Alstom's above referenced proposal, dated 5 February 2021, where Alstom provided a detailed breakdown of the costs for amending the Contract Material due to MOD-003.

Further to the above, TfNSW advises that it has assessed Alstom's proposal and pursuant to clause 16.2 of the Agreement issues variation no. 22 to Alstom as detailed below.

Scope of Variation:

Provision and incorporation of the changes in the Signalling Design between MOD-002 and MOD-003 as detailed in the attached design package report (Additional Services).

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the lump sum variation amount is \$50,433.27 as detailed in table 1 below:

Table 1

<u> </u>			
Role	Hours	Unit Rate (excl. GST)	Amount (excl. GST)
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Systems Assurance			
Independent Professional Review			
Design Management			
	Total Var	iation Amount	\$50,433.27

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
Locked Bag K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$50,433.27 (excl. GST) to a total value of \$28,863,662.35 as described in Attachment A.

Date for Completion and any intermittent milestones:

The revised Date for Completion of Portion 2 is 16 February 2021 and the intermittent milestones for the submission of the Contract Material are as detailed in table 2:

Table 2

Description	Date
MOD Pack-03 Validated Data Delivery	
MOD Pack-03 Assurance Pack Delivery	
MOD Pack-03 Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 22 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

Yours sincerely,		
Sarah Grant Principal's Representative	Dated:	10/02/2021
Attachments: Attachment A – Revised Fee		
Variation no. 22 is accepted for and on behalf of Alstom Transport	Australia	a Pty Ltd:
Signature:		
Name (print):		
Position:		
Date:		



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
This Variation 22 – Portion 2 Revised Signalling Design (MOD- 003)	\$50,433.27
Revised Fee	\$28,863,662.35
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ATP L	etter Ref:	6568852
Alstom Ref:		

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP) AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 23 – Portion 9 Airport Line Speed Sign Changes (Area

TfNSW makes reference to its previous letter ref: 6554106, dated 22 January 2021, where TfNSW issued variation proposal request number 11 to Alstom to amend the Contract Material for Portion 9 due to the speed sign changes on the airport line; and Alstom's above referenced proposal, dated 25 February 2021, where Alstom provided a detailed breakdown of the costs for amending the Contract Material accordingly.

Further to the above, TfNSW advises that it has assessed Alstom's proposal and pursuant to clause 16.2 of the Agreement issues variation no. 23 to Alstom as detailed below.

Scope of Variation:

Amend the Contract Material for Portion 9, Area 8, as per the revised Signaling Design for Portion 9 transmitted to Alstom via Teambinder transmittal ref: ATP-TFNSW-ALS-CORR-000346, see attached.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the lump sum variation amount is \$106,628.91 as detailed in table 1 below:

Table 1

e 1			
Role	Hours	Unit Rate (excl. GST)	Amount (excl. GST)
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Systems Assurance			
Independent Professional Review			
Design Management			
	Total Var	riation Amount	\$106,628.91

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
Locked Bag K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



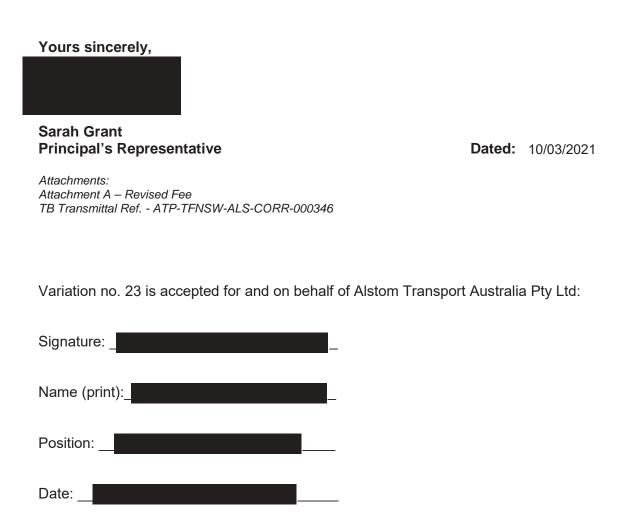
Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$106,628.91 (excl. GST) to a total value of \$28,970,291.26 as described in Attachment A.

Date for Completion and any intermittent milestones:

The current Date for Completion of Portion 9 is 2 March 2021 and the revised Date for Completion of Portion 9 as a result of this variation is 15 June 2021. There are no additional costs associated with the extension of time to the Date for Completion under this variation.

TfNSW requests Alstom's acceptance of this variation no. 23 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).





Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
This Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Revised Fee	\$28,970,291.26



ATP Letter Ref: 6571639 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 24 – ISD-17-6580 Area 9 Fixed Balise Solution

TfNSW makes reference to its previous letters ref: 62421642, dated 7 February 2020 and ref: 6535615, dated 18 December 2020, where TfNSW issued variation proposal request 5 to Alstom to amend the Contract Material for Area 9 due to the revised scope using a fixed balise solution; and Alstom's above referenced proposal, dated 10 March 2021, where Alstom provided a detailed breakdown of the costs for amending the Contract Material accordingly.

Further to the above, TfNSW advises that it has assessed Alstom's proposal and pursuant to clause 16.2 of the Agreement issues variation no. 24 to Alstom as detailed below.

Scope of Variation:

Amend the scope of Services for Portion 12 to Portion 18 (Area 9), due to changes in the corresponding Signalling Design due to the implementation of a fixed balise solution as detailed in the following documentation, attached:

- Attachment A Principal's Design and SFS.
- Attachment B AMS Trackside Sub-systems Requirements ver 5.0 Applicability analysis for fixed BG_31102019
- Attachment C Area 9 Fixed Balise Solution Design Due Dates

Furthermore, TfNSW advises of the following changes in the scope of Services:

- a. Eastern Suburbs Line (Portion 14) is deleted from the Services; and
- North Strathfield Goods Line in Portion 4 is included in the Services.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the lump sum variation amount is - \$138,140.59 as detailed in table 1 below:

Table 1

Item	Portion	Description	Price (AUD)
1	Portion 12	Area 9.3 - Chatswood to Hornsby	
2	Portion 13	Area 9.4 - Artarmon to Town Hall	7-2
3	Portion 14	Area 9.2 - City Circle	40
4	Portion 15	Area 9.5 - Redfern to Burwood	
5	Portion 16	Area 9.7 - Redfern / Sydenham / Arncliffe	10



Item	Portion	Description	Price (AUD)
6	Portion 17	Area 9.6 - Strathfield to Lidcombe and Olympic Park	
7	Portion 18	Area 9.1 - Central and Sydney Terminal	
8	Portion 21	As-built documentation for Area 9	
9	Project Management Fee	Extension of time costs due to overall delays to Date for Completion of Area 9	
		Total Variation Amount	-\$138,140.59

Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of -\$138,140.59 (excl. GST) to a total value of \$28,832,150.67 as described in Attachment D.

Revised Date for Completion:

The impact to the Date for Completion for each Portion 12 thru Portion 21 is detailed in the table below and the Date for Completion of the last Portion to achieve Completion, as a result of this variation, is 11 March 2022 (Portion 21).

Portion	Current Date for Completion	Revised Date for Completion	
Portion 12	10-Mar-20	11-May-21	
Portion 13	2-Jun-20	15-Jun-21	
Portion 14	2-Jun-20	6-Apr-21	
Portion 15	30-Jun-20	1-Jun-21	
Portion 16	7-Jul-20	22-Jun-21	
Portion 17	21-Jul-20	13-Jul-21	
Portion 18	1-Sep-20	20-Jul-21	
Portion 21	2-Mar-21	11-Mar-22	

TfNSW requests Alstom's acceptance of this variation no. 24 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton Mutombeni@transport.nsw.gov.au).

Yours sincerely,

Sarah Grant Principal's Representative

Attachments:

Attachment A - Principal's Design and SFS

Attachment B - AMS Trackside Sub-systems Requirements ver 5.0 - Applicability analysis for fixed

BG 31102019

Attachment C - Area 9 Fixed Balise Solution - Design Due Dates

Attachment D - Revised Fee

6571639 2 of 7

Dated: 23/03/2021



Variation no. 24 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:	<u></u>
Name (print):	_
Position:	_
Date:	



Attachment D - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
This Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Revised Fee	\$28,832,150.67

6571639 7 of 7



ATP Letter Ref: 6586551 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear _____,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 25 – Area 6 Portion 7 (MOD-003) Auburn Signalling

Design Changes

TfNSW makes reference to its previous letter ref: 6567911, dated 3 March 2021, where TfNSW issued a modified AEO Design Package (MOD-003) of the Signalling Design for Portion 7 Area 6.3 to Alstom to amend the Contract Material for Portion 7; and Alstom's above referenced variation proposal, dated 25 February 2021, where Alstom advised that there is no cost impact to the Fee arising from this MOD-0003.

Further to the above, and pursuant to clause 16.2 of the Agreement, TfNSW issues variation no. 25 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material for Portion 7, Area 6, as per the revised Signaling Design for Portion 7 transmitted to Alstom via Teambinder transmittal ref: ATP-TFNSW-ALS-CORR-000269, dated 2 March 2021, attached.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the lump sum variation amount is \$0.00 as there is no impact to the Fee resulting from the changes to the Services under this variation.

Adjustment to the Fee:

T Fee remains at a total value of \$28,832,150.67 (excl. GST) as described in Attachment A.

Date for Completion:

There is no impact to the Date for Completion of Portion 7 arising from this variation.

1 of 3



Date:

TfNSW requests Alstom's acceptance of this variation no. 25 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7,2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
This Variation 25 – Area 6 Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Revised Fee	\$28,832,150.67



ATP Letter Ref: 6591000 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:	

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation 26 – Non-Productive Man-Hours Costs (1 January 2021 to

31 March 2021)

TfNSW makes reference to Alstom's above referenced correspondence, dated 5 March 2021 and 4 May 2021 respectively, where Alstom submitted claims, pursuant to clause 3.1B(g) of the Agreement, for extra costs of Data Design Personnel ('Non-Productive Man-Hours Costs') incurred by Alstom between 1 January 2021 and 31 March 2021 due to the delays in receiving the Design Packages by the relevant Design Due Dates under the Agreement.

Further, TfNSW acknowledges that Alstom has provided timesheets of the Data Design Personnel in support of the Non-Productive Man-Hours Costs for TfNSW's verification.

TfNSW advises it has assessed the above mentioned extra costs and in accordance with the provisions of clause 3.1B(g) and pursuant to clause 16.2 of the Agreement issues this variation 26 to compensate Alstom for the Non-Productive Man-Hours Costs incurred between 1 January 2021 and 31 March 2021.

Variation Amount:

Pursuant to clause 16.3 (b) of the Agreement, the lump sum variation amount of \$279,626.04 is valued by using the hourly rate set out under Schedule 6 – 'Rates for Valuation of Variations' of the Agreement and as amended under TfNSW's letter ref. 6453809, dated 13 July 2020 and ref. 6589030, dated 12 May 2021. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Month	Non-Productive Man-Hours	Hourly Rate, \$	Amount, \$
January 2021			
February 2021			1
March 2021			
otal Variation 26	Amount		\$279,626.04



Adjustment to the Fee:

Date: __

The Fee is adjusted by a lump sum amount of \$279,626.04 (excl. GST) to a total value of \$29,111,776.71 as described in Attachment A.

TfNSW requests Alstom's acceptance of this variation no. 26 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

6591000 2 of 3



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood - MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Area 6 Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
This Variation 26 - Non-Productive Man-Hours Costs (Jan' 21 to Mar' 2021)	\$279,626.04
Revised Fee	\$29,111,776.71

6591000 3 of 3



ATP L	etter	Ref:	6586550
Alstom Ref:			

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation 27 – Area 6 - Portion 5 - Seven Hills – Blacktown – Quakers

Hill (MOD-002) NIT Observation (NIT-A6.1-002)

TfNSW makes reference to Alstom's letter referenced above dated 30 April 2021, where Alstom submitted variation proposal to amend the Contract Material for Portion 5 in the geographical location Seven Hills – Blacktown – Quakers Hill due to changes in the Design Package, arising from the revised Signalling Design (MOD-002) issued by TfNSW under their TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000277 dated 30 March 2021. TfNSW makes further reference to its correspondence ref. 6589629 dated 13 May 2021, where TfNSW requested Alstom to comply with the documents issued under the above transmittal ATP-TFNSW-ALS-TX-000277.

Further to the above, TfNSW advises that it has assessed Alstom's proposal and pursuant to clause 16.2 of the Agreement issues variation 27 to Alstom as detailed below.

Scope of Variation:

Amend the Contract Material and perform the additional scope of Services pertaining to Portion 5 due to changes in the Signalling Design (MOD-002) as issued by TfNSW under the above noted transmittal.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is valued by using the hourly rates set out under Schedule 6 – 'Rates for Valuation of Variation' of the Agreement as amended under TfNSW's letter ref. 6453809, dated 13 July 2020. Please refer to table 1 below for a breakdown of the variation amount:

Table 1

Role	Hours	Unit Rate (excl. GST)	Amount (excl. GST)
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Systems Assurance			
Independent Professional Review			
Design Management			
Total Variation Amount			\$135,163.83

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
Locked Bag K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$135,163.83 (excl. GST) to a total value of \$29,246,940.54 as described in Attachment A.

Date for Completion and any intermittent milestones:

The current Date for Completion of Portion 5 is 24 November 2020 and the revised Date for Completion of Portion 5 as a result of this variation 27 is 20 July 2021. There are no additional costs associated with the extension of time to the Date for Completion under this variation.

TfNSW requests Alstom's acceptance of this variation 27 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

Sarah Grant Principal's Representative Dated: 19/05/2021 Attachments: Attachment A - Revised Fee TB Transmittal Ref. - ATP-TFNSW-ALS-TX-000277 Variation 27 is accepted for and on behalf of Alstom Transport Australia Pty Ltd: Signature: Name (print): Position: Date:

6586550 2 of 3



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Area 6 Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 – Non-Productive Man-Hours Costs (Jan' 21 to Mar' 2021)	\$279,626.04
This Variation 27 – Area 6 - Portion 5 - Seven Hills – Blacktown – Quaker Hill (MOD-002) NIT Observation (NIT-A6.1-002)	\$135,163.83
Revised Fee	\$29,246,940.54



ATP Letter Reft 9000190 Aletty Reft

Alstern Transport Australia Pty Ltd., 16 Glffnock Avenue, North Ryde, NSW 2113

Aftertion:

Door .

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 2 Trackerde Data Design (ISD-17-8580) ("Agreement")
Subject: Variation No. 28 – Area 6 Portion 7 (CB137) and Area 8 Portion 8 (CB015) Dem Design Changes Due in Modified Signating Design -

Pine Hoad Level Crossing

TfNSV imakes reference to Alstorn's letter noted above, dated 21 June 2021, where Alstorn's, brnifted a variation proposal in response to TfNSV/s letter reft 65971.11, dated 4 June 2021, which directed Alstorn to emend the Confluet Material for Person 7 and Portion 8 to include Pine road level crossing modification issued via Teambinder transmittalizer, ATP TFNSV/ALS TX 000316, dated 4 June 2021.

Further to Alstonia fetter noted above, TNSW accrowledges that the macified Signaling Costyn will result in modification and reworks to the Contract Maxe of for Portion 7 and Perford and constitutes a variation. As such pursuant to clause 16.2 of the Agreement, TNRW issues the variation not 28 to Alstonias detailed below.

Scope of Variation:

Amend the Contract Material for Pertion 7 and Partion 8, has per the revised Signaring Design transmitted to Akstain via Teambinder transmittal ref. ATP TFNSW ALS TX 000315, dated 4 June 2021, copy enclosed.

Variation Amount:

Pursuant to classe 16.9(b) of the Agreement, the variation amount is 891,998.75 (excl. GBT) as detailed in table 1 below:

Table 1

Role	Hours	Rate	Amount
Data Proparation Engages Data Preparation Manager			
Data Validation Engineer	90		-15
Utata Malichaton Managor System Assurance			
Independent Professional Review	S 2		
Design Mentepartent	100	3	

Intractricity is a Proced Automoric Train Protection Program 2 francischer (Automoris Ave. Rev. 2015 Industrial Col. (Procedo Rev. 2016 Trick) 6200 2000 4814 15 834 259 600



	Tutal	SP1 398 T0
1.0	Tulal	\$91,098,70

Adjustment to the Fee.

The Fee is adjusted by a tump sum amount of \$91,398.70 textsl, GST; to a total value of \$29,398,399.30 (exc., 38T) as detailed in Armexure 1.

Date In: Completion:

The impact to the Cate for Completion of Portion 7 and Pertion 5 arising from this samples will be assessed later. The losy milestones are detailed in lable 2 pelow

Table 2

Activity	Missione
Porton 7 Validated Data Relivery	- 33
Portion 7 Assurance Pack Delivery	
Porton 8 Valence Cara Delivery	
Portion if Assurance Pack Delivery	

TfMSW requests Alstom's acceptance of this variation no. 20 by signing in the space provided below and returning a signed copy in its entirety to Brighton Nutombert. (Brighton Multombeni@transport.new.gov.au)

Yours ancerely.	
Nadine Bourezg Principal's Representative	Dated.
Artischenetis Geboren 1.4 - Marketa Pac I H. School for Host - 2 I H. Heberte 2020 - 2 departs	
Venetion 28 is accepted for and on fetter) of Al	atom Transport Australia Ply

1 10

Stonemice Mame indolor Front on



3 of 4



Allactment A - Sevicet Fee

Description	Value
Digital las	323 438 464 80
Colors - Cera Desgri Respenses for Area 7	\$735 123 20
Variation 1 Reworks to Fortion 1 Contract Material	\$50,447,44
Variation 2 Lung roductive main hours Claim (April 19 June 19)	\$604,400.00
Variation 3 - Unproductive manifecting Chairm (July 19 = Oc./ 2019) - Variation 4 - Amendment to Yard Entry and Exit Ballise Groups at	\$352 765 00 \$64 558 26
Homsby (Port on 2) Variation 5 – Mission Files Generation for Areas 1, 6, 7, 5 and 9.	\$52.242.40
Variation 5: Unproductive man hours Claim (Nov/ 2019 - Feb/ 2020)	3634.040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	8508 112 95
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773 811 84
Variation 9 Revised Scope of Services Fixed Balise Solution Areas 6, 7.2 and 9	\$156 1 (2.60
Venetion 18 - Revente to the Contract Material for Port on 11 Referente to Mil Vedorie.	\$92,270,21
Verteinth 11 - Americknett is Yard Linky end Link Jelses Groupe Area 1. Linkson S - Expensi	\$10,001.52
Variation 12 Reworks to the Contract Material for Port on 4 Concord West to Bastwood MOD 000	\$108,947,09
Variation 13 - NorwProductive Manyhours Costs (Jone) 20 to Aug (20)	\$206,061,28
Variation 14 - Yard Entry & Edit Balise Groups (C. Link) Portions 5 10 (Areas 688)	\$27.311.04
Venetion 15 - Yero Linky & Lix Hustise Georges (C-Fink) Fortion 11 (Asset 7.2)	36 000.24
Variatio 18 - Portions 8 Signaling Design MCDs	\$28,535.87
Sension 1.C. Fortion & Data Casign of Arlomona Halisa Groups CTC 1.C. Level transfort flamous	830 818 84
Variation 10 Fortion 2 Homstly (MOC 002) NIT Defects	\$96,523,97
Variation 19 - Non-Productive Man-Hours Costs (Sec) 20 to Dec 2020)	\$592,515.76
Sensition 20 - Area & Portion & (Lastie th Certion Perk - Liverpool) Selfon Perk Speed Sign changes W000-001	854 908.87
Variation 21 Kengy Angy Maintenance Facility (KAMF) Yard Entry and Exit Ballise Groups Data Design	\$107,833,05
Verlahor 22 - Portion 2 Revised Stohalling Design (MCD+000)	\$507.25.27
Variation 23 - Portion S Airport Line Speed Sign Changes	\$106,626.81
Variation 24 Area 9 Fixed Ballise Solution	3 30 140.99
Variation 25 Portion 7 (MOC 903) Autum 8 gnalling Design Changes	80.00
Variation 26 - Unproductive Man Hours Claim Jan 2021 Mai 2021	\$279,628.10
Verialist 27 - Portion 5 (MCD-CDQ) NE Diolecta	\$136 103 83
This Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,098,70
Revised Fee	\$29,038,039,00



ATP Later Ret (2005)00 Autom Ret

Alstom Transport Australia Pty Ltd. 16 Offmock Avenue. North Ryde, NSW 2113

Attention:

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 29 Portion 14 - Area 9.2 (City Circle) Data Design Changes Due to Modified Signalling Design (MOD-003)

LINSW makes released to Aleton's stoke representables, dated 2 June 2021, where Abdom solimited a sensition proposal or Poster 14 (Area 9.2) in response to LINSW's take reli 8568259 dated 5 May 2021, when directed Absom at among the Contraditional to incorporate modified Signatury Resp. (NICO-ICS) issued as Teamhinder transmits but ATEAL NEW-ALS (A-OICSH on 90 April 2021).

Luitter to Abdoma felter noted ecoso; LINSW economicopes that the muched Signaling Ceston will result in modification and revorks to the Contract Material for Portion 14 and constitutes a variation. As such and pursuant to decise 10.2 of the Agreement, LINSW essess this variation to 28 to Abnomics decisied below.

Scope of Variation:

Amend the Centraet Material for Person 14 (Area 5.1) as 55 the revised bignating Design for Person 14 (MO 1405) transmitted to Astom via Teachinger transmitte reli-A1P-11 NSVAA: E-1X-000294 dated NLApril 2021, open enclosed.

Variation Amount:

Furstiam to clause 16.3(b) of the Agreement the variation amount is 553,114.44 (excl. GSD) as detailed in table 1 tectors:

Table 1

Role	Hours	Rate	Amount
Data Preparation Engineer		8	
Data Proparation Manager Data Malidahon Linginear			E.
Data Validation Manager			100
System Assorance Independent Professional Review			-

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Design Management		
(i)	TOTAL Vanstrum Amount	.553,114.44

Adjustment to the Fee.

The Fed is adjusted by a lump sum amount of \$53.114.44 (excl. CST) to a total value of \$29,391,493.74 (excl. CST) as data lad in Amovure 1.

Date for Completion:

TINEW advises that any extension to the Date for Completion of Portion 14 arrang from this variation will be assessed at a later date. The key mirestones are summarised in table 2 technol.

Activity	Milestone
Validated Data Delivery	- 1
Assurante: Heck Claffsory	

LPISAV recreeks Alelom's ecceptance of the vension no 199 by accomplinithe space provided tectors and returning a signed copy in its entirely to drighten Materials and Register Materials (Instruction powers).

Yours a noetely.



Nadine Bourgeg Principal's Representative

Dated:

Artacomeres:

Attachment A - Revised Fee

TE Transmittal Ref. - ATP-TENSW-ALS-TX-600294

Variation 29 is accepted for and on behalf of Aistor; Transport Australia Pty Ltd:

Nome (print)

Position:

20(2



Attachment A - Revised Fee

Original Eee	
CONTROL OF THE PROPERTY OF THE	\$29,439,464 FT
Option – Data: Data gri Resources for Area 7	\$195,123,20
Variation 1 - Movertar or fortion 1 Contract Material	\$80,441,44
Variation 2 - Unproductive man-hours Claim (April 19 - June 19)	\$807,100,00
variation 3 - Unproductive man-hours Claim (bity 19 – Oct. 2019)	5082 775 00
Variation 4 - Amendment to Year Entry and Eqt Salise Groups at Homsely (Portion 2)	567,556,03
variation 6 – Wission Files Generalien for Areas (1.6.7, 8 a to 0	802,242.40
Variation 8 - Unproductive manches is Claim (Nov. 2010 – Feb. 2020)	9061.040.00
Vanation 7 - Pervicitor to the Contract Water at for Portions 1 to 4	5508 112.00
Sanation 8 - Non-Productive Man-Hours Coals (Mar 20 to May 20):	\$703,511,34
valiation 0. Revised Spans of Services . Reed Balke So (Not Areas 0, 7.2) and 8	5158,112.50
Variable #10 - Rewelles to the Contract Material for Partion 11 Kappomba to Mt.: Viguena	9921-325
Variation 11 - Amendment to Yero Entry and Extributes Groups Area 1 Porson 1 - Employ	580 354.50
variation #2 - Reworks to the Contract Material for Portion 4 -Concord West to Ennyoped = MOD-4889	\$108,547,03
variation 18 - Non-Productive Man-Hours Costs (June) 20 to Augi 20)	\$206,061,25
Carlation Mi- Yard Erroy & Dif Calise Groups (C-Link) Eprione 5-10 (Areas (6-3)	\$27,717,04
Variation 15 - hard bridged post bales Groups (C-Link) Fortion 11 (Ansa 72)	\$8,300.14
Variation 16 - Fortions 6 Signal hip Beagn MODs	\$286,508.67
Variation 17 - Port on 8 Data Design of Additional Baltic Groups CB117 base. Transition Removal	\$30,516.54
Variable 18 - Fortion 2 Homsby (V 004002) NT: Detacts	556,555,27
Variation 19 - Non- Yorkschie Man-Hours Costs (Sep. 20 to Dec 2000)	5892 515.75
Vallution 20 - Area S Port on 8 (Fairfield) Softon Park III Liverscol) Seffon Fark Speed Sign changes MCU-201	\$84,668.67
Variation 2" — Kangy Ancy Maintenance Tablity (KAME) Yeld Entry and Dish Barbo Croups Data Dough	\$104,561,05
variation 22 Portion 2 Revised Signaling Ses on (2/00 003)	300 433 27
variation 28 Portion Businport Une Speed Sign Changes	\$100,026,91
Variation 24 – Area 9 heard Salas Goldson	-6138,140.51
Variation 25 - Area 5 Artism / (VOD-908) August Eighafung Daugh Changes	50.00
variation 26 - Unproductive Man-Tours Claim - Lan 2021 - Mar 2021	5279 226 12
Variation 27 - Area & Portion 3 (MOD-002) NIT Defects Chances	5435,485,12
Variation 28 – Areas E.S. 9 Pine Road LX MOD	801 308.73
This Variation 29 - Portion 14 (Area 9.2) NOD-408	968,114,44
Revised Fee	429.891.468.74

590g552 3-64 >



ATP Later Ref. (2004)M Autom Ref.

Alkinor Fransport Australia Pty Lot 16 G Phock Avenue, North Ryde, NSW 2112

Attendor

DAY

Automatic Truin Protection Program (ATP)

AM8 Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580).

Subject: Variation No. 10: Portion 15 - Area 9.5 (Reitfern in Burecod) Data

Design Changes Due to NOO-301 and CB481 Level Transition

Installation Changes

TfNSW makes reference to Aistom's above referenced letter dated 10 June 2021, where Aistom submitted a variation proposal for Port on 15 (Area 8.3) in response for

- INSVs total not 8550/32, dated 14 April 2021, where is directed Astom to smend the Commo, Material for Enrich 15 arising Form by medical Signaling Design (MOD-001) issued via Transmitted transmitted of ATP-TFNSV-ALS-TX-000/85 on 13 April 2021, and
- TINSW's letter ref. 6390518, dated 25 May 2021, where it directed Aislam to amend the Contract Material for Portion 15 to Incorporate the AEC approved Design Package for level transition installation issued via Teambinder transmitaref. ATF TENSW ALS TX 000279 on 1 April 2021.

Further to Alstom's letter noted acrove, T1NSW acknowledges that the modified Signalling Design will result in modification and reworks to the Contract Material for Portion 15 and constitutes a variation. As such and pursuant to clause 15.2 of the Agreement, T1NSW issues this variation to 50 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Materia for Portion 15, Area 9.5 as per the revised Signaling Design transmitted we Teambrook transmitted ref. IT NSWA-ALS-TX-0002X on 1 April 2021, and transmitted ref. ATP TENSWA-ALS-TX-000205, cased 10 April 2021, copy enclosed.

Variation Amount:

Purs, and to clause 16.3(b) of the Agreement, the variation amount is 3264.218.04 [exclude] as detailed in table 1 below:

Table 1

Role	Homa	Rule	Amesont
Data Proparation Engineer			
Data Preparation Manager			S = 0



	TUTA	L Vortett	nn Ammost	\$761,710.04
Design Management				
Independent Professioner Novice	3			
Deut Velkfalsen Manager System Assurance				
Data Volklation Engineer		-		

Adjustment to the Fee:

The Fee is adjusted by a temp sum windom of 5264.215.04 (ps.d. CST) to a total value of \$25,050,070,75 (excl. GST) as detailed in Annexure 1

Date for Completion:

PMSW advises that any extension to the Date for Completion of Portion 15 axis ing from Into variation will be assessed at a later data.

TfNSVV requests Alstom's acceptance of this variation no. 30 by signing in the space. provided below and returning a signed copy in its entirety to Brighton Mutomben. (Erlahton/Multomben)@transaprt.rs-vigov.aut.

Yours a nearely.	
	733
man mental pour	1
Nadine Bonnezg	
Principal's Representative	i).
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Dalled:

TO Transaction from JATH TENSOR ALS: DX-200338

variation 35 is appeared for and on gehalf of Alstoin Transport Australia Fty Lith.

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Attachment A - Revised Fey

Description	Value
Original need	\$23,438,484,60
Option - Date Deepn Resources for Area Y	\$735 (23.70
Cartalion 1 - Revocks to Portion I Contract Materia	\$30,077.11
variation 2 - Unproductive man hours Claim (april 19 - June 19)	\$604,400,00
variation 8 - Unproductive man hours Claim (July 18 - Oct 2018)	\$802,706,00
Variation 4 - Amendment to Yero Entry and Extitleties Groups at Homoby (Portion 2)	\$64,596,20
Variation 5 - Wastern Fried Generation for Areas 1 - 6.775 and 9	\$52,242.41
than elich 6 - Ungreductive manyhours Clean (Nov 2019 – net/ 2009)	\$851,040,00
Variation 7 - Revealer to the Contract Valentation Portions 1 to 4	\$500,412,66
tradition 0 - Non-Productive Man Figury Coasts (Mart 20 to May 20)	\$770,743,74
Vension 9 - Maxied Space of Services – Frood Baltin Souther Ages 6	\$156 112 20
Variation 10 - Hay-orks to the Contract Material for Portion 11 Resources to 6th Microsite	\$81,273,27
Variation — Amendment to Yeld Printy and Pdr Railise Groups Area 1 Portion 5 – Epping	\$59.00LC2
Variation 12 - Hawariana the Contract Wateriel for Porson 4 - Concord West to Englished 1, MCD 001	\$103,947.00
Variation 13 - 14ch- Apductive Warn-Hours Costs (June) 20 to Aug 20)	\$205,081.18
wathfight 14 Yand Brory & ExtriBalise Groups (C. Link) Portions 5.10. [Alcony 555]	\$27,314,74
(variation of "Yard Brary & Ent Ballse Groups (Q. Link) Parties of (Area. 7.2)	40 308 24
transation 16 Partiage 6 Signaling Design S1004	\$30,506,70
Manation 17 - Portion & Data Usaign of Additional datas Groups (1811). Level Transition Removal	\$31516.5
Variation 16 - Fortion 2 Homsby (VOD-802) NIF Daracts	\$96,533.0
tradation 18. Non-Productive Man Loury Coats (Sec. 20 to Dec 2020)	\$597,545,70
Variation 20 - Area 5 Fortion distraineds Sation Park - Designosty Sation Park Speed Signishanges (ICC) (ICC)	\$611666.5
Variation 2: Kangy Argy Nathranance Facility (KAME) Yard Entry and Ext. Satist Croups Date Design	\$164.581.15
variation 22 Portion 2 Revised Signaling Dasign (VOO 008)	\$60,433.27
Variation 29 – Portion 9 Airport Line opeod 8 gin Changes	\$106,608,01
Variation 24 – Area 9 head Sailse Seleson	-\$136,140,50
variation 25 Abea & Portion 2 (8/00) 0000 Autuut Signaling Centon Changes	\$0.00
Cartalion 26 - Disprocuritive Man. Jours Claim Lan 2021 - Mar 2021	\$279 (26.4)
Wallation 27 Area & Portion 5 (MOD 002) N.E. Dedects Conness.	\$4.55 465 53
Variable 128 - Areas 5 & 5 Pine Road LX MCD	101 508 70
Variation 29 - Portion 14 (Area a 2) (MOD-003)	\$59,114.44
This Varietion 30 - Portion 15 Area 9.5 (NDD-001 and CB-01 Level Transition changes)	4264 218 64
Revised Fee	\$29,055,071,76

3503474 3 of 2



ATP Later Ref. (SQC)(7) Alexy Ref.

Aleion, Traceport Australia Pty Ltd. 18 G Linest, Avenue. North Ryde: NSW 21: 3

Alamaer.

Dear

Automatic Train Protection Program (ATP)

ANS Area 1, 8, 7, 8 and 9 Trackelde Data Design (ISC-17-6560) ('Agreement')

Subject: Variation

Variation No. 31 – Pertion 17 – Area 9.6 (Plennington and Endeonise)
Data Design Changes Due to Modified Signating Design (MOD-002) and
Level Transition Installation Package (Authorn - Lidcombs)

TNSW makes reference to Alsterns above referenced letter, dated 28 May 2021, where Aistons submitted a variation proposation Portion 17 (Area 8.6) in response to the following:

- TMSWiss lector ref. 6697232, dated 26 May 2021, where bidirected Alstorago amending Contract Statestal for Portion 17 to incorporate the AED approved Design Package for level transition installation in Autum Eddomica (CB096) source we Tourndard parameterization. ATP TENSW ALS TX 000280 on 1 April 2021, and
- Intrody's latter net 3881006 dated 15 April 2001, where it directed Alatom to amend
 the Contract Material for Portion 17 arising from modified Dusgin Package (MCD-200) issued at Termbloder transmittal ref. ATE-TENSW-ALS-TX-000257 on 14 April 2021.

Further to Alstern's letter noted above. TINSW approviledges that the modified 8 gird ling Design will result in modification and rewards to the Control Mareta for Partion 17 and constitutes a variation. As such and pursuent to clause 18.2 of the Agreement, 1995W issues this variation no. 81 to Alstern as detailed below.

Scoop of Variation:

Arriand the Contract Material for Portion 17, Area 6.6, as per the revised 3 gnaling Design transmitted via Tearrishment transmittal ref. ATP-TERSW-ALS-TX-000000 dated 1 April 2016 and transmittal ref. ATF-TERSW-ALS-TX-000187, dated 14 April 2021, door engineed.

Gardarion Amount

Persuant to clause 16.3(a) of the Agreement, the variation amount is \$147,273,30 resol. UST1 as detailed in table 1 below.

Table 1

Rnie	House	Rate	Amount
Cala Preparation Figures:		-	-
Data Preparation Manager			
Date Veldeton Engineer Date Veldeton Henager			
System Assulance	100		= %

Intracomotopio is Pracel
Automoto Train Protection Program
Prime United Augusto Ave. For APP
Install Aug 68, Christopia In RAA 208
T (22) \$200 5000
45'4, 19 534 299 500



hidupentien, Professional Buyers		
Design Management		
TOTA	Warfation Amount	\$147,972.30

Adjustment to the Fee:

The Fee is adjusted by a turno sum amount of \$142,973.50 (excl. GST) to a total value of \$28,003,045.00 (excl. GST) as detailed in Anneques 1.

Date for Completion:

TMISCA advises that any extension to the Date for Completion of Portion 17 arising from Inia. variation to 8 be essessed at a fater date.

TRISVe requests Alstorne acceptance of this variation no. 31 by signing in the space provided below and returning a signed copy in its orthody to Engineer Mutamber (Birchen) Mutamber (

Your mendy.



Natine Bourezg Principal's Representative

Dwiech

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TO Transfer Park - ATT-TOVENALS-TO-S000007

Variation 31 is appointed for and or policy to "Assem Transport Australia Fly Ltd."





Attachment A.- Revised Fee

Description	Value
Original Fee	\$23,439,464,50
Option – Data Codign Hosearces for Asea /	\$195,123,20
Variation 1 - Mayorks to Nation T Contract Majoria	\$80,447,44
Consider 2 - Unproductive man-hours Claim (April 19 - June 19)	\$504 (00.00)
Weterfort 3 - Unproductive man hours Claim Unity 19 - Oct (2019)	\$367,785.00
Variation A - Amonomoral to Yard Entry and East Bullion Groups at Homsely (Portion 2)	\$84,506.15
Variation 6 – Vission Files Ochanation for Areas 1, 8, 7, 8 and 9	\$92,042.40
Samulation 8 - Organistic street manifesting Chairs (No. / 2019 = Ref./ 2020)	3861,040,00
Variation 7 - New orks to the Contract Valental for Portsets 1 to 4	\$800 112 00
Variation 3 - Non-Productive Man-House Coals (Mar. 20 to May 20)	\$773141.54
Variation 0 - Revised Scope of Services - Fixed Balke Solytion Areas 0.7.2 and 5	\$160,112.60
Variable 110 - Revolts to the Contrast Material for Fertion 11 Katoon ballo M 9 conta	902,278,28
Variation 11 - Amendment to Year Entry and Exit Set so Groups Area 1 Person 1 3 - Epping	\$83,084,82
Variable + 12 - Revertes to the Contract Material for Persion 4 / Consert West to Harry good - MOD-Mitt	\$108,647.03
Variation 19 - Non-Productive Manifeors Costs (June/2015 Aug 20)	\$205,081,26
Variation 14 - Marti Epro- & Chill Callise Groups (CHills) Portions 5-10 (Areas (88)	\$27,047,01
Variation 15 - Yard Erray & Exit Ballion Groups (2-Link) Portion 11 (Area 7.2)	\$8,505,24
Variation 16 - Portions 6 Signal ing Gesign MODs	\$281 508.27
Variation 17 - Port on 8 Data Design of Additional Balliac Groups CB117 Cove Transition Removal	\$30,516,54
Variation 18 - Fortion 2 Homsby (VDD-902) NIT Detects	\$96,533.07
Variation 19 - Non-Productive Man-hours Goals (Sec. 30 to Dec. 3000)	\$882,515.75
Speed Septichages WCD-201	\$841,668.57
Variation 21 – Kangy Andy Maintenance Captiny (KAME) Yard Entry and Extr. Burkle Groups Data Design	8104 561.05
Spiration 22 Portion 2 Revised Signaling Dasign (VOO 008)	\$60,433,27
trantation 28 - Portion P Airport Line Speed Sign Changes	\$100,028,61
Venetion 24 – Area 9 hoed Salse Solution	-\$138,140,50
Variation 25 – Area S. Arton / (MOD-80S) Autum Signaling Essign Charges	\$0.00
variation 26 - Illegreeurities Manifettis Claim - Lan 2021 - Mar 2021	5279 726 10
variation 27 - Area & Portion 5 (MOD 002) NIT Defects Changes	5535 163 57
Validitid + 28 = Areas 5 & 8 Pine Road LX MOD:	\$01,508,70
Variation 20 (Fortion 14 (Area 0.2) - NOD4008	958.114.44
to land 180 - Portion 15 (strea 5.5) (MOD 001 and CB461 CT sharpes)	8204,218,04
This Variation St – Portion 17 (Auca 9.8) – MOO-002 and LT Installation C0006	\$147,573,36
Revised Fee	\$29,000,645,00



ATP Letter Ref: 6603735 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear ,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 32 –Portion 6 - Area 6.2 Data Design Changes Due to NIT Defects (MOD-002, MOD-003, MOD-004)

TfNSW makes reference to Alstom's above referenced letter, dated 10 June 2021, where Alstom submitted a variation proposal for Portion 6 (Area 6.2) in response to the various TfNSW's correspondences listed below where TfNSW issued modified copy of the Signalling Design for Portion 6 to Alstom:

- 1. TfNSW's letter ref: 6565891, dated 26 February 2021,
- 2. TfNSW's letter ref: 6567919, dated 4 March 2021,
- 3. TfNSW's correspondence issued via Teambinder transmittal ref: ATP-TFNSW-ALS-TX-000276 on 30 March 2021,
- 4. TfNSW's letter ref: 6585689, dated 29 April 2021,
- 5. TfNSW's letter ref: 6585782, dated 30 April 2021,
- 6. TfNSW's letter ref: 6593124, dated 25 May 2021,
- 7. TfNSW's letter ref: 6593133, dated 25 May 2021,
- 8. TfNSW's letter ref: 6593151, dated 25 May 2021, and
- 9. TfNSW's letter ref: 6597132, dated 7 June 2021.

Further to the above, TfNSW acknowledges that the modified Signalling Design has resulted in modification and reworks to the Contract Material for Portion 6 and constitutes a variation. As such and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 32 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material for Portion 6, Area 6.2, as per the revised Signaling Design transmitted under TfNSW's correspondences noted above.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the variation amount is \$311,817.34 (excl. GST) as detailed in table 1 below:

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
Locked Bag K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Lable 1

Rule	Hours	Male	Annuart
Date Properation long reser-			
Date Preparation Manager			
Date Validation Engineer			
Data Validation Manager			40
System Assurance			30
Independent Professional Review	80		
Design (Management			DOMESTIC:
-		Total	\$81,1,917,34

Adjustment to the Fee:

The Lee is adjusted by a timp sum emount of \$316.817.54 (exid. \$251) to a total value of \$30,115,462.42 (exid. \$51) as detailed in Annexure 1.

Date for Completion:

TfNSW advises that any extension to the Date for Completion of Portion 6 arising from this variation will be assessed at a later date.

TRNSV/ requests Alstom's acceptance of this variation do 02 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutomben (Erichton Mutomben) (Erichton Mutomben) (Erichton Mutomben)

Yours	5	ncer	de.



Nadine Bourneg Principal's Representative

Datest

variation 15, a appealed for and on behalf of 4 atom Transport Australia Pty (16)

Elgnature:	
Name (print)	
Fosition:_	9_
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Attachment A.- Revised Fee

Description	Value
Original Fee	\$27,438,404,50
Option – Dear that grill Hoseuroov or Area /	\$195,123.10
Variation 1 - Howerts to Nation T Contract Material	\$80,441,44
Waterfelt 2 - Unproductive man-hours Claim (April 19 - June 19)	\$594,400.00
Catalier 3 - Unproductive man hours Stalm (Alify 19 - Oct 2019)	\$367,765.00
Variation A - Amondment to Yard Entry and Edit Salise Groups at Horisty (Portion 2)	\$84,508,18
Validation 6 – Visision Files Ocharation for Areas 1, 6, 7, 6 and 0	\$62,042,40
Variable: 0 - One objective manifective Chain (Nov. 2010 = Red/ 2020)	\$951,040.00
Variation 7 - Matworks to the Contract Valental for Potentia 1 to 4	\$800 112 59
Variation 3 - Non-Productive Man-Fours Coals (Mar 20 to May 20)	\$773,641.54
Variation 0 - Revised Scope of Services - Fixed Balker Solyton Areas 0.7.2 and 5	\$160,112.60
Variation 10 - Rewalts to the Contrast Material for Persion 11 Katoon balts. McMeteria	\$92,278.28
Canadion Amendment to Yard Entry and Exhibit se Groups Area 1 Polition 8 – Epping	\$53,051.52
Warration 12 - Maryortes to the Contract Waternal for the don't - Concerd Wast	\$103.947.05
Variation 13 - Non-Productive Manifours Costs (June 12), to Aug 201	\$205,081,28
Variation (Alivinard Erroy & cost Baltae Groups (C-Link) I britona 5-10 (Avesa 1 668)	\$77,044,04
Variation 15 - hard bridy & both Baltier Groups (2-Link) Portion 11 (Area 7.2)	\$6,503,14
Watellon 16 - Portions 6 Signalling Resign MOOs	\$20,576,57
Warration 17 - Hortonië Data Deagh of Addisonal Salise Groups CB117 U. Demokri	\$90,516,54
Variable 18 - Port on 2 Horisby (VOD4002) Kill Detacts	\$96.55% (-)
Variation 19 - Non-Productive Manufloure Coals (Sec. 30 to Dec. 2020)	\$592 515 28
Variable 20 - August Porton & Painted Schon Park, Auverbook Schon Park School Sign changes, WCD-9001.	\$84,886.5
Wathfild 2. Kangy Andy Maintenance Tability (KAMF) Vars Entry and TVF Ballico Groups Data Dowg?	\$104,581,05
Variation 27 Portion 2 Sevised Signaling Ses on (WOO 003)	\$50,400,27
Variation 29 - Portion 6 Airport Line Speed 8 gm Changes	\$100,028.51
Variation 24 – Area 9 Fixed Baris's Bollation	4138 140.50
variation 25 – Area & Portion 7 (MOD-865), Autour Signaling Design - Changes	\$0.00
Variation 26 - Unproductive Man-House Obern - Jan 2004 - Mar 2001	\$2778 8285 10
Variation 27 - Area & Portion 5-(VIDD-002) NIT Defects Changes	\$135,163.53
trailation 29 Areas 1.8.3 Pine Road LX MOD.	49 209 70
Validition 29 - Portion 14 (Area F.2) MOD 008	\$53,114,44
Variation 30 - Portion 15 (Area 9.5) (WOD-00) and CB464 . Tichanges)	\$261,210,01
Variation 3" - Portion 17 (Area 9.6) - NIDO-002 and IT Insia bition CD091	\$147,973.20
This Verbrian 32 - Portion 5 (Area 5.7) - NIT Defects (NDO-002, MOD- 003, NOD-004)	\$311,617,34
Revised Fee	899,115 402 42



ATP Later Ret (2007) Alton Ret

Aiston: Transport Australia Pty Lot. 16 G Phoos Avenue, North Rado, NSA: 2115

Attendo milita

De3:

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6560) ('Agreement').
Subject: Verlation No. 32. Portion 7. Area 6.6 Autumn to Lidcomba.

Amendment to Contract Material (CB095) - Level Transition Installation

TRISMs makes reference to Alstonia's above referenced letter dated 3 May 2021, where Alston submitted a varietion proposal for Portion 7 (Area 9.6) in response to 14NSA's Tournteign parametal not. ATP TENSN ALS TX 000280, pated 1 April 2021, where it issued the revised AEO approved Besign Package for Augum-Lidcombe level transition, in particular C0025.

Further to Alstein's letter noted above, TINSW asking-ledges that the modified 8 gnalling Design will result in modification and revokes to the Contract Material for Fortion 7 and constitutes a version. As such and pursuant to clause 18.2 or the Agreement, (INSW issues variation no. 93 to Alstein as data led below.

Scope of Variation:

Amend the Contract Material for Portion 7, Area 5.6, as pointhe revised Signaling Design for Forlion 7 (MOD-002) transmitted to Alsonn via Teamhinder transmittal ref: ATP-TENSAN-ALE-1X-800280 on 1 April 2021, copy enclosed.

Variation Amount:

Furtuarn to clause 17.7(b) of the Agreement, the variation amount is assessed at \$172,931.04 (see CS1), using the frequity rates inted under Schedure 8 of the Agreement, and as projected under TfNSAV latter ref. 6168800 dates 18 July 2020. Please refer to table 1 delay for detailed breaksown of the variation amount.

Table 1

Rose	Hours	Rara) prount
Data Preparation Engities		MATERIAL ST	Comments of
Date I reparet on Menager			S S
Data Validation Engineer			10 10
Data Validation Manager			
System Assurance Independent Professional Review			
Deagn Menagement		Total	\$1/2,331.94

Intrastructura a Prace
Automatic Train Protection Program
7 (intractionity About and Ave. Note: 101)
India (14) 68 (15) (view to NACA 108)
T (22) 6200 5300
45'4 15 534 259 600



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$172,331.94 (excl. GST) to a total value of \$30,287,794.36 (excl. GST) as detailed in Annexure 1.

Date for Completion:

TfNSW advises that any extension to the Date for Completion of Portion 17 arising from this variation will be assessed at a later date.

TfNSW requests Alstom's acceptance of this variation no. 33 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

Yours sincerely,	
Nadine Bourezg Principal's Representative	Dated:
Attachments: Attachment A – Revised Fee TB Transmittal Ref ATP-TFNSW-ALS-TX-000280	
Variation 33 is accepted for and on behalf of Alstom Transport Au	ıstralia Pty Ltd:
Signature: _	
Name (print):	
Position: _	
Date: _	

6603751 2 of 3



Attachment A - Revised Fee

Cearphon	Vidue
Original Tee	\$72/30/06/00
Option Data Design Resources for Area 7	\$785,128,20
(variation 1 - Beyons to Portion 1 Contract Materia)	480,447,44
Variation 2 – Unproductive man-hours Claim (April 19 – June 19)	\$504,400.10
Variation 3 – Unproductive manificura Claim (July 19 – Cot 1919)	\$362 (65.10
Wat allion 4 - Amendment to Yord, Thiny & Fall Rise and Joinsby (Portion 2)	\$64,596,78
Variation 5 - Vission Flier Generation for Areas 1, 0, 2, 5 and 9	\$57,242.40
Validation 0 – United scale manner is Claim (New 2019 – Feb 2020)	\$951,040,00
Variable: 7 – Revenue to the Contrast Machiel for Persons 1 to 4	\$908,112,59
Variation 3 - Non-Productive Main-House Costs (Mar. 2045 May. 20)	\$773,811,51
Variation 9 - Bewieed Scope of Services - Floed Baltier Areas 6, 7 3 and 8	\$156 112 20
Variation 10 – Reversa to the Congred Material for Performin Materials. Mt Webnie	\$02,278.26
Variation "" – Amendment to "and entry and but Balise Groups Appa" Portion 3 – Epping	\$53,251,55
Variation 12 – Rowerss to the Constact Material for Portion 4 -Constact West to beatwood – MCDVCC3	\$109.047.08
Out after 18 - Non-Productive Wan-Hours Codes (June 20 to Aug. 20)	\$207,081,29
Valuation 14 – Yard Entry & Edi, 59s (Callink) Portions 6-10 (Arcas 086)	\$27,314,04
Variation 15 - Yard Entry & Ext. 5Ga (C-Link) Portion 11 (Area 7.2)	\$6,503.54
Warration 16 - Portores & Signaling Cealgn MCCa	\$84,538.57
Variation 17 – Portson & Jack Besign of 466 fighel Sales Croups CB117 L I Remova	\$9161654
Variable 118 - Portion 2: Hernaby (MOU-802) http://delecta	\$96,533.0
Variation 19 - Norwifreductive Variations, Scala (Sept 10 to Bell 2020)	\$592.515.78
Variable 120 History 8 Area 8 (Harlinkk Selton Hark - Liverpool) Selton Park Science Sign changes, WCD 001	\$61,888.5
tradiation 2 Kangy Angy Maintenance Facility (KAMF) Yard Entry and Bot Salise O'cups Date Design	\$164 581 55
Parinton 22 Portion 2 Revised Signaling Design (WOO 003)	\$60,433.27
Variation 28 – Portion 9 Airport Line, Speed 8 gir Changes	\$109,628,51
Vanation 24 – Area 9 hourd Salac delation	-\$138,140.50
tradiation 25 Portion 2 Area 2 (MOD) 0000 Autum Signaling Design Changes	\$0.00
Variation 26 - Reproductive Man-Tours Claim - Lan 2021 - Mar 2021	\$279,826,10
Variation 37 - Fortion 5 Area 6 (MOD 402) httl Detects Changes	\$435,463.00
Variation 28 – Areas E.S. & Pine Road LX MCD	\$01,808.70
Valuation 20 = Portion 14 (Area 5.2) MOD-353	\$59,114,44
variation 80 - Portion 10 (Area B.6) (MOD 001 and CB461 LT changes)	\$304,218.74
Variation 31 – Portion 17 (Area 5.6) (MCID-002) Hismington and Extour be	\$147.973.30
Warration 32 - Portion 5 (Area 6.2) - NET Detects (MCC-203, MCC-203, MCC-203, MCC-203)	\$511.017.24
This Variation 33 Portion 7 (Area E.S) - Auburn-Lidoombe LT (CB06G)	\$172,231.64
Revised Fee	\$31,287,764.20



ATPLIES HE BESTER

Alatom i retraport Australia (1) U.d. 10 G Phock Avenue, North Byde, NSW 21, 1

Attendon:

Des:

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackarde Data Design (ISD-17-8580).

Subject: Variation No. 34 Portion 5 Area 6.1.

Amendment in Contract Naterial due to Level Transition Removal.

ITMSVV makes interence to Alstoni's above reteranced letter, dated 8 day 2021, where Alstoni's Jordanian a variation proposal for Portion 3 (Area 6.1) in response to Tf4SVV silecter ret 6599027, dated 10 June 2021, which directed Alstoning amend the Commact Material for Portion 5 lensing from the Covet Transport removal package issued we Teambridge transport to ref. ATF-TFK-SVA-VIG-TX-000310 on 28 May 2021.

Further to Alatomia teller noted above. TINSW acknowledges that the Level Transition removal package will result in changes and reworks to the Conside. Material or Porton 5 and constitutes a variation. As such and pursuant to chause 15.2 of the Agreement TINSW sources this variation no. 34 to Alatom as detailed below.

Scope of Variation:

Amend the Contract Material for Portion 5, Area 5.1, as per the revised Signaling Design For shifted was Teambinder For shifted not. TENSVI ALS TX 000815 on 28 May 2021, copy enclosed.

Variation Amount.

Pursuant to disease 18.3(b) of the Agreement, the variation amount is assessed at \$151,677.84 (and, CS I) using the nounty rates under Schedule 8 or the Agreement and as an ended under TNSW teter of 6689160 dated 12 May 2021. Please refer to take 1 below for data led breakdown of the variation amount.

Table 1

Role	Hours	Paris	Amount
Date Preparation Fing neet			
Data Preparation Manager	100		
Data Validation Engineer			
Dala Validation Manager			
Bystem Assulance			
hidspercent Professional Hovey			
Design Management			
TOTA	L Vanation	Amount	5191,677,84



Adjustment to the Fee:

The hears educated by a furno sum amount of \$151,517.84 (abol. GS1) to a total value of \$30.435,472.00 (excl. GST) as detailed in Amount 1.

Date for Completion:

The key milestones ensing from this varietion order are summerised in the table below.

Missiere	Euc Date
Validated Data Downly	200
Assurance Neck Delivery	

PNSW advises that the overell eptersion of time to the Cate for Completion of Porson 5 will be assessed at a after data.

ThiSNs requests Alstonia assertance of this variation no Dr. by signing in the space provided calcal and returning a signed copy in its entirety to Brighton Mutembern (Brighton Mutembern Strangers Strangers).

Yours a richard y,	
13613 7160 67,	
Radine Boureza	
Principal's Representative	Datost
WORKS SELECT WOODS	
TAX AND A REPORT OF A REPORT OF A PROPERTY AND A PR	

Variation 34, is accepted to land on behalf of Airtion Transport Australia Bty List.

Signatura.	
Name grina	
Poedian:	
Date:	



Arrechment 6 Revised Fee

Dwardpring	Value
Original Fee	\$23,138 - 64.90
Opach — July Design Measuress for Area 1	8/35/12325
Variation 1 – Reworks to Portion 1 Contract Material	250 447 44
Variation 2 – Unicroductive man-hours Claim (April 18 – J. no 19)	9504 (00.00
Variation 9 - Organization main from a Clariff (July 19 - Cot 2019)	\$262 /es.00
variation 4 – Amendment to Valid Entry & Okt BGs at Homeby (Portion 2)	594 596 26
Variation 8 - Mission Files General on for Areas 1, 6, 7, 8 and 8	(\$52.242.40
Variation 6 - Unproductive man hours Claim (New 2019 - Feb' 2020)	\$551,04000
variation 7 – Reworks to the Contract Material for Portions 1 to 4	\$200 1 1 28
Variation 8 - Non-Productive Man-Hours Costs (Mari 20 to May [20])	\$773.6:1.91
variation S – Revised Scope of Services – Tixed Fallise Solition Areas 6, 7.2.1 8.8	9150 112.00
Variation 10 - Revertes to Centrus: Material Portion 11 Kateorysia to MI Vie	- 502,273,28
Verlated 11 – Verd Entry Z. Edit Blüx Area 1. Norson 3 – Epoing	253 35T.53
Variable: 12 - Helvortes to the Consider Material for Nerson 4 (Concord West to Eastwood - MOD-003)	5 100 947 03
Variation 15 Non-Productive Main Hours Costs (June 20) to Aug (20)	9206 081.26
Variador 11 - Naro Brory & Bot 99 (C-Link) Portions 0-10 (Areas 688)	327.8:4.05
Variador: 15 - Yard Engy 6 Edit Balke Groups (G.Birk) Portion 11 (Area 7.2) :	30,303.2
Variation 15 — Yorgens & Signaling Deagn MODa	528,535,6
variation 12 – Portion C.Data Design of Adolftonal BGA CRU 7 (T. Removal	570 0.5 (4)
Variation 15 - Polition 2 Hornsby (MOD) 002) NIT Defects	300 683,07
Variation 19 Non Productive Man Hours Costs (Sep. 20 to Dec. 2020)	9502,615,74
Variation 20 — Yorgon & Area & Seifon Park Speed Sign changes MOD4001	164 855.8
Vereiton 21 – COVIn Yard Entry and bit I Belies Groupe Usts Design	\$184.581XI
variation 22 – Portion 2 Revised Signaling Design (MODH000)	550 - 21.77
Variation 23 Persion 5 Virgott Line Speed Sign Changes	9100 028.01
Variation 24 – Area V Holad Ballies Sciutare	-\$158,140,50
Variable 125 - Perden 7 Area 6 (MOD 003) Aubum Signal ing Design . Changes	\$0.00
Variation 33 — Unproductive Man-Louis Claim - Jan 2034 - Mar 2021	\$279,620.0
Variation 27 - Pointon 5 Area 6 (MOD 002) NIT Defects Changes	9136 163,83
Variation 25 - Areas 6 & 5 And Road CX MOD	291,398.70
variation 29 – Portion 14 (Area 9.2) MOR-000	555 174 44
Vereiton 30 - Yorgon 15 (Area 6.5) (MOD-001 and CB451 L1 changes)	3184 21839
Variation 31 - Portion 17 (Area 9.6) (NOD-302) Flemington and Lidbarriae	\$137,973,90
Vereign 31— Yorkon 6 (Area 6.2) - NT Celecte (MDD-002, MCC-003, MOD-004)	5711 0 7 34
Variado (83 - Pordo (7 (Area 9.6) - Augum Liticombe LT (08096)	9172 891.91
Titls Variation 24 Fortion 5 - Area 6 (West Commissioning) Level Transition Removal	9151,677,84
Royked For	930,480,472,01



ATP Later Ret 200752. Autom Ret

Aleion: Transport Australia Pty Ind. 18 G Lines: Avenue, North Ryde: NSW 21: 3

Alamaer.

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 8, 7, 8 and 9 Trackelde Data Design (SD-17-6560) ('Agreement')

Subject: Variation No. 35 - Portion 2 (Area 1)

Changes to Contract Material Day to Level Transition Removal and

Merging (CB108).

I NSW marks interesed to Abton's above referenced letter, dated 8 only 2021, where Aiston's brillied a variation proposal to Portion 2 (Area 1) in resignose TB/SW's letter ref. 358/1961, dated 20 May 2021, where TB/SW directed Abtom to propose the Contract Markets for Portion 2, CB001 to incorporate the Cover Transition removal of Horizon.

Further to above. TRISWs asknowledges that the direction issued under our letter notes: above will result in modification and reworks to the Contract Material of Porton 3 (COSIGN) and densitiates a variation. As such and oursuant to clause 16.2 of the Agreement. TINSW issues talk variation to 105 to 4 stom as detailed below.

Scope of Variation:

Amend the Contract Material for Portion 2: CR309, to incorporate the level transition removal at Hornaby and margang of CB309 part A and part 8 as per 1995Ws latter noted above.

Verladon Amount:

Pursuant to Ideuse 18.3(b) of the Agreement, the version remount is essented at \$108.250.54 (excl. 98T), using the Housty races under Schedule 6 of the Agreement and as amended under TNSW letter of 10885080 dated 12 May 2021, Please refer to table 1 below for data led breakdown of the variation amount:

Table 1

Role	Hours	Rate	Amount
Data Insparation Engineer			
Data Preparation Manager			
Data Validation Engineer			- 1000
Date Vet Setion Manager			Once is
System Assurance			
Independent Professional Review.	1993		
Design Management	No. 5		
TOT	AL Varietin	n Amount	\$100,758.94

Intractricities is Proced
Automatic Train Protection Program
17 Intractibilities, Microgram Ave. Forw. 2015
Included Applications on the Ref. (1988)
17 (22) (220) (200)
4814 19 834 299 600.



Adjustment to the Peer

the Peerla adjusted by a tumb sum amount of \$105,250.94 (exct. GSI) to a local value of \$30,647,731,64 (exct. GSI) as detailed in Announce 1.

Date for Completion:

The key milestones arising from this variation order are summarised in the table below:

M extone	Date Cale
Validate: Data Delbery	(a)
Assurance Pack Dollvery	

TfNS/V advises that any extension to the Date for Completion of Portion 2 arising from this variation will be assessed at a later date.

T948/V requests Astories acceptance of this variation not 36 by signing in the space provided below and returning a signed copy in his entirety to Brighton Mutomber (Brighton Mutomber).

Yours sincerely.	
Nudme Bourezg Principal's Representative	Darech
ANAGEMENT AREXESTS A PROMISS FOR	

Verenton 25 is accepted for and on pelos tion Aleion. Freneport Australia Pty Ltd.

Signature:	
Name (primir	
Foelfloor	
Date	



Attachment A.- Revised Fee

Description	Value
Ongra fee	\$23,438,464,80
Option – Bala Gerigo Resources for Area 7.	5275,127.20
Variation 1 Revorts to Forton 1 Contract Material	380,447,44
Variation 2 – Unproductive man-hours, Claim (April 19 – June 19)	\$504,400,00
Variation 3 – Harmducthe man-hours Civin Guly 18 – Oct 2019)	\$2162,765,00
Variation 4 Amendment to Yard Entry 8 Eat BOy at Homsty (Portion 2)	564,995.25
Variation # Mission Fres General on for Ardes 1, 8, 7, 8 and 9	:52 242 A.
Variation 6 - Unproductive mankhours Claim (Nov. 2019 - Feb. 2020)	\$551,040,00
Variation 7 – Rewarks to the Contract Material to Portions 1 to 4	\$100.15.2.89
Variation 6 - Mon Productive Man Hours Costs (Man 2015 May 20)	87/9/811/84
Variation 6 – Revised Scope of Services – Fixed Balise Solution Areas 6, 7,2 . A.f.	8158 112.60
Variation 10 – Hakturka to Contract Material Portion 11 Katoompa to MI Wo	592 27125
variation 11 Vard Entry & Ext 60s Area 1 Portion 3 Epsing	253 264 62
Variation 12 – Rewarks, to the Contract Material for Portion 4 -Concord West to Basiswood 1000 003	\$100 A47.03
Variation 13 - Non-Productive Man-House Coals (June 18 to Aug 19)	\$306,08126
Variation 14 Year Erray & Exit 80 (O Errit) Portions 9 10 (Victor 658)	527,314,04
Variation 15 - Yard Erray 5 Exit Sales Groups (Olbink), Addon 11 (Arg. 7.2).	\$6,303,24
variation 12 - Portions 6 Signaling Design NDCIs	520 535 67
Variation 17— Portion 6 Data Design of Additional BGs CE117 LT Removal	330 8 5.91
Variation 15 - Action 2 Horrsby (MOD 802) NTI Delects	508 58307
Variation 12 - North hodgosys Man Hours Costs (Sep. 25 to Dec. 2020)	2502.515.75
variation 20 – Portion 1 Area & Section Park Speed Sign changes MODHOOL	50-051 dZ
Variation 21 - KNMF Mard Entry and Exit Balise Groups Data Design	9104 691.05
Variation 22 — Yordon 2 Howard Signaling Design (MOD-005)	550,435.27
Variation 13 - Portion 9 Aircorf Line Speed Sign Changes	5106 822 81
Variation 21 Avec 9 Fixed Ballise Bollution	\$138,140,65
Vereiton 25 — Yordon 7 Area 6 (MCI3-003) Autourn Signal ing Design	\$1.01
Charryes Variadon 25 — Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	9279 025 0
Variation 27 — Notice 5 Area 6 (MOC 002) NH Delects Changes	8135,163,83
Variation 25 - Areas 6 & C Pine Boad LX MOD	591,788,70
Variadon 2E — Portion 44 (Area 9.2) MOD-008	3584 4,44
Variation 30 → Portion 45 (Area S.5) (M)00-001 and CD464 1 T. changes)	525/12, 104
Variation 31 Person 17 (Alex 3.8) (MOD 302) Florrington and Editionists	2147.973.90
Variador 12 — Portion 6 (Area 6.2) - NET Defects (MIDD+052, MCD+001, MDD+064)	8311.817.84
Variation 23 - Notice 7 (Area 9 8) - Augum Liceon be L. (08:06)	\$1:238134
Variation 34 – Portion 5 - Area 5 Level Transition Removal (West)	2151,677,64
This Variation 95 – Portion 2 (Area 1) Data Design Changes Due to Level Translation Regional and Mercing CR009	\$100,259,94
Havissed Fee	930,547,731/34



ATP Later Ret 200750 Alton Ret

Alsion: Traceport Australia Pty Ltd. 18 G Lnoot, Avenue, North Byde: NSW 21: 3

Alamaer.

Dear

Automatic Train Protection Program (ATP)

ANS Area 1, 8, 7, 8 and 9 Trackelde Data Design (ISD-17-6560) ('Agreement')

Bubyeet: Variation No. 35 - Portion 12 (Area 9.5)

Data Design Changey Due to ET Installation of 8t Leonards and Track.

Slww Works (CB106)

I NSW mailes interence to Alstoni's above referenced feder, dated 8 only 2021, where Alstoni submitted a variation proposal to Portion 12 (Steel 8.3) in response to the following:

- ThisNe's letter refi (500055), dated 9 April 2001, where it directed Alston to Americi the Contract Material for Portion 12, C00050, arising from level transition installation Design Package at S1 Leonards resued via Teambinder transmittel refi AT STENSAS ALS TX 00003 on S1 March 2021, and
- Introfive letter net 6595639, detect 29 June 3021, where if directed Alatom to amend
 the Contract Material for Portion 12; arising from modified Crosign Package
 incorporating track clear works in Chartescool, issued sta Tearnhinder transmittal ref.
 A II NI NISA-ALE-TA-900325 on 18 June 3021.

Further to Alstern's Litter noted above. TINSW acknowledges that the modified 8 gna ling Design will result in modification and rewards to the Contract Material for Partion 12 and constitutes a variation. As such and pursuant to clause 18.2 of the Agreement, 1995W issues this variation no. 89 to Alstern as detailed below.

Scope of Variation:

Amend the Contract Material for Pertien 12, Area 5,8 and in particular CB008 and CB008, as per ThIGOs sueliters noted above.

Variation Amount:

Filtraper to datase (7.3(a) of the Agreement, the variation amount is assessed at \$132,405.47 lead GS is using the housty rates under Schedule 6 of the Agreement and as emented under 19.5% letter fell 5580030 dated 10 May 2001. Pages refer to altre 1 below for detailed brookdown of the variation and no.

heate T

Ruly	Hours	Plante	Amount.
Data Preparation Engineer Data Preparation Manager			
Data Validation Engineer			
Data Valdation Manager	100		

Intracementaria in Process
Automorio Train Protection Program
7 famostoticos (Abustano Are Reference)
1 famostoticos (Abustano Are Reference)
1 famostoticos (Abustano Area (Abustano Abustano)
1 famostoticos (Abustano Abustano Abusta



Вухиний экстине		
Independent Professional Review - Design Management	oransma le	
TOTA	L. Variation Amount	5132,498,47

Adjustment to the Peach

The Fibe is ladjusted by a fund sum amount of \$182,168 47 (exc). GST, to a total value of \$30,630,230 41 (exc). GST; as detailed in Annex, re 1.

Date for Completion:

The key milestones are summarised in the table below:

M autona	Date Cale	
Validates Data Dalbery		
Assurance Pack Delivery		

T948/V arkities that any extension to the Date for Completion of Pertion 12 arising from this variation will be assessed at a brendare.

TMS/V requests Alstornis acceptance of this variation no. 50 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutomben (Brighton Brighton (Brighton Brighton (Brighton Brighton (Brighton (Bri



Variation 26 is escepted for and or rechart of Alatem Transport Assistant Pty Dtd.



2-44



Attachment A.- Revised Fee

Description	Value
Original Fee	\$25,438,464.8.
Opson – Jala Jasign Kescorcus to Area Y	2735,12520
Variation 1 – Reworks to Fortion 1 Contract Material	S80 447.44
Variadon 2 - Un productive man-troops Claim (April: 19 - June 19)	\$20° × 01.00
Variation 9 - Unproductive man houry Claim (July 19 - Opf 2019)	9362 795,00
Variation 4 - Amendment to Yard Entry 8 eta, 80% of Hematy (Neuton 2)	:64 59:2:
Vereited: 5 - Mission free Cemeral on for Areas 1, 5, 7, 5 and 9	552 294A
Variation 6 - Unproductive man-hours Claim (Nov. 2019 - Peol 2020)	\$250 De0 (0)
Variation 7 - Rewards to the Contract Material for Portions 1 to 4	5200 1 2.89
Variation 8 - Non-Productive Man-Hours Costs (Mari 20 to May 20)	9773 6 1,9°
Vereign V = Hoad Belies School Areas 6 7.2 € 6	2156 112,63
Variation 10 – Beworks, is Contract Malerial Portion 11. Geograps to MI Vic.	592.273.23
Variation 3.1 –Vard Entry & Edit BGs Aisa, 1 Portion 3.– Epoing:	250,051-51
Variation 12 – Rewarks to the Contract Material for Portion 4 -Concord West to Contract – (NCD-003)	\$105,947.0.
Variation 12 - Non-Productive Man-Hours, Costs Glubel 20 to Aug. 200	5205 003 20
Variation 11 - Yard Entry & Edit 93 (C-Link) Portions 6-10 (Areas 688)	927 3:4.0
Variation 15 - Yard Erray & Exit Sales Groups (O-Link) - Grach 11 (Area 7.2).	\$8,903.24
Variation 15 — Yordona & Dignaling Data ph MDDs	128 535 6
Variation 12 − Portion 3 Data Design of Adolftonal BSs CB1 (7) T Reproval	550 010 04
Warladon 15 – Portion 2 Hornelty (MOD-002) NIT Delects	586 533 83
Variadon 18 - Non Productive Man Hours Costs (Sep. 20no Dec. 2020)	8582.615.79
Suration 20 Portion 8 Area 8 Selter, Purn Special 8 gm changes MOD 001	284,858,85
Variation 21 – KAME Yard Forty and Exit Dalley Groups Data Design	\$184 501 0
Variation 22 – Portion 2 Revised Signaling Design (MODe000)	250 - 32.73
Variation 23 - Portion 9 All part Line Speed Sign Changes	\$100,623.9
Variation 24 Area 9 Fixed Ballise Sciotion	9158 140.6
Variation 25 — Portion 7 Area 6 (MOD-505) Authorn Signaling Design Changes	\$0.00
Variation 28 - Juproductive Main Hours Claim I can 2021 Mar 2021	9270,026,16
Variagen 27 - Person & Area & (MOD 1002) NH Delects Changes	2155 165.8
Variation RE - Areas 6 & E Pine Boad LX MOD	SP1 281 7
Wardadon 28 – Portion 41 (Aren 9.2) MOD-208	3531.44
Variation 85 Portion 15 (Area 5.5) (MOS 50), and CB461 LT changes)	9204 218,0
Variation 91 Person 17 (West 0.8) (MOD 002) Fernington and Eddomise	3147.973.3
Veresion 31 – Norson 6 (Mess 8 2) - NIII. Estacia (MOCHOCZ, MCCHOCS), MOD 004)	521 (10.7.3
Variation 93 Person 7 (Area 0.0) - Augum Listoombe LT (09595).	9172 891.0



Variation 34 - Action 5 - Assa S Lovel Transport Homoval (West)	3151,877,84
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Higher for Memore, and Marging 2800M	8108.209.04
This Variation 36 - Portion 12 (Area 5.3) Data Beergn Changes Due to Level Transition Installation at Sc Leonard and Track Siew Works CE005	\$132,498.47
Revised Fee	\$10,800,200,41



ATP Later Ret 65(100) Alton Ret

Alston Transport Australia Pty Lot. 16 G Phoos Avenue, North Rade, NSA: 2115

Attendo milita

Deat

Automatic Train Protection Program (ATP) ANS Area 1 6, 7 8 and 9 Trackstife Data Design (ISD-17-6560) ('Agreement') Subject: Variation No. 17 Area 6 Portion 7 KIT Modifications

INSV makes relevance to Alsomis above reteranced letter loaned CLLLy 2021, where Abdom submitted a variation proposal for Portion 7 (Area 8.2) in response to 15NSV state for re-CSSRRD loanes St. Line 2021, which disease Alsom to arrand the Contract Meter at the Portion 7 arrang from the modified Signature Design exalted are resimilarated bearing the ref. A TR-TENSVA-ALS-TX-RDBMS on 8 and 2021.

Further to the above, TMSW as nowledges that the modified Signatury Design has combat in modification and rewards to the Contract Material for Portion 7 and constitutes a variation. As such and pursuant to deute 18.2 of the Agreement INSW sauce this variation no. 37 to Alaton as detailed below.

Scope of Varietion:

Amend the Contract Material for Portion 7, Area 6.2, as per the revised Signaling Design transmitted to Aistorn via Teambinden transmittal reft ATP TFNSW AUS TX 000319 on 9 lane 2021, copy and seed.

Variation Amount:

Pursuant to clearer 18.9b) or the Agreement the variation ancient is essented at \$212,469.86 (excl. CST) using the fourly rates under Schedule 8 of the Agreement and as amended under TNSW latter of, 6589030 dated 12 May 2021. Plaque rate to table 1 below for cetained president of the variation amount.

Table 1

Mule	Hours	Plute	Amount
Data Propersion Engineer			
Data Preparation Manager			
Date Velidal on Engineer	100		
Date Velidel on Manager			
System Assumnce			in the
Independent Professional Beview.			
Design Management			
	30 P 907	Total	9212,489.9

Introduction & Place
Automoric Train Protection Program
7 (and other) About and Ale Horn 2012
(included to \$6.0 (not at the RAN 108)
T (22) \$200 \$200
ABN 15 \$24 250 600



Adjustment to the Fee:

The Fed is adjusted by a temp sum amount of \$212,480.88 (excl. CST) to a total value of \$30,681,770.09 (excl. GST) as careful in American 1.

Date for Completion:

The key milestones are summarised in the table below:

Wilestone	Due Date
Validated Porta Delivery	
Assurance Pack Celivery	

FPSW advisor that any extension as the Cate to Completion is Portion Canading Forming varieties will be assessed at a later date.

LINEAN recreeks Alatom's ecceptance of this sensition no. 37 by scoring in the ececeprovided below and returning a signed copy in its entirety to Brighton Mutomben (Brighton Mutomben)(Stransport new govisio).

Yours a nourely.



Nadine Bonezg Principal's Representative

Destect

Variation 37 is associated for and on behalf of Aistein Transport Australia Pty List.

Egratina.	1
Name (print):	摄
Position.	3
Date:	

25/1200



Attachment A.- Revised Fee

Description	Value
Origina Fee	\$22,400 / 64,00
Option – Optio Design Resources for Area 7	\$736 123.20
Variation 1 Reworks to Portion 1 Contract Material	360 447,44
Variation 2 – Unproductive maninours, Claim (April 19 – June 19)	\$504,400,00
Variation 3 – Unproductive man-hours, States (July 18 – Opt. 2019)	\$202,760.00
Variation 4 – Amendment to Yard Entry & Edn BOs at Horrisby (Portion 2)	26/1000025
Variation 6 Mission Files Generation for Areas 1, 6, 7, 8 and 8	352,042,40
Variation 6 - Unproductive main insurs Claim (Nev 2019 - Feb 2020)	9651,040.00
Variation 7 – Marcoka to the Contract Material for Fortions 1 to 4	3508 112.40
Variation 3 - Non-Productive Man-Hours Costs (Mar 20 to May 20)	\$270 011.04
Variation 9 - Fixed Balise Bolution Areas 6, 7.2 8,8	\$150.1:2.00
Variation 15 Revorted to Central Material Portion 11 Kindernsa to Mt Vier-	892,279,28
Variation 11 - Yard Entry & Eq.(BCs Area 1, Yorkon 3 - Epology	558 391.92
Versition 12 – Revarios to the Contract Material for Picroch 4 -Concord West to Eastween 1900 003	\$100,047.07
Variation 13 - North todopave Main Hours Costs (June 128 to Aug 128)	\$256.081.26
Variation 11 – Yard Fittry & Ext. 95 (CH Ink) Portions 5-10 (Avens 680)	527,014,04
Variation 15 - Yard Brory & Exit Balke Gro. ps. (G-Unk) Portion 11 (Avez 7.2).	\$6,303.24
Variation 15 Portions 6 Signaling Dosign MOOs	528 695.67
Variable: 17 - Reiger & Data Design of Additional BOs CB117 Li Removal	530,816,84
Vereign 15 - Yorgon 2 Homeby (MOD-002) NR Celecte	596,533,97
Variation 19 - Non-Productive Man-Hours Coals (Sep. 20 to Dec. 2006)	\$592,516.76
Variation 20 – Portion 3 Area 6 Section Park Speed Sign charges MDD-001	30/05107
Variation 21 – 45MF Yard Entry and Exit Balise Grouns Data Design	\$164,691,05
Vereign 21 — Yordon 2 Haward Eignelling Design (MOD-003)	550 43527
Variation 23 — Portion 9 Airport Line Speed Sign Changes.	\$106 822.91
Variation 34 – Area S Fixed Paline Solution	-6100 140 59
Variation 25 — Portion 7 Area 6 (MOD-202) Authorit Signal ing Design Changes	\$2.00
Variation 23 – Unproductive Man-Louis Claim - Jan 2021 - Mar 2021	5279 KYO C
Variation 27 Person 5 Area 6 (MOD 502) NT Defects Changus	8155 103.83
Variation 25 - Area 6 & 5 Area Road CX MOD	391,398,70
Variation 29 — Nordon 14 (Area 6.2) MOD-003	353 114 44
Variation 30 - Portion 15 (Area 9.5) (MOR-20) and CR404 LT changes:	577-12/104
Variation 34 - Portion 17 (Area 9.6) (MOR-202) Flerrington and Historiae	5417,973.40
Variador 82 — Pordor 5 (Avec 0.2) - NET Defects (MOD-002, MOD-003, MOD-003).	3311.817.34
Variation 33 ← Portion 7 (Area 9.6) - Augumé l'orombe (□ (CR095).	5172 03184
Variado 1.81 — Portio 1.5 - Area 6 Level Transition Removal (West)	915: 677.61



Mariation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Lineas (on Marioyal and Marging 28000)	9108 205,04
Variation 35 – Portion 12 (Area 6.3) Data Design Changes Due to Level Instellion Installation at ST Leonard and Track Slaw Works C5005	\$132 (\$3.47
This Variation 37 Area & Portion 7 NIT Modifications	\$212,499,68
Revised Fee	\$10,892,721.49



ATP Letter Ref: 6606950 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:	

Dear

Automatic Train Protection Program ('ATP')

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 38 – SIT and Kangy Angy Maintenance Facility (KAMF)

As-Builts

TfNSW makes reference to Alstom's above referenced letter, dated 6 July 2021, where it submitted a variation proposal for the preparation and submission of SIT and KAMF final safety assurance and as-built documentation.

Further to the above, TfNSW acknowledges that the scope of as-built documentation for SIT and KAMF was excluded from scope of Services under variation no. 21 (letter ref. 6555948 dated 3 Feb 2021). As such and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 38 to Alstom as detailed below.

Scope of Variation

Provision and incorporation of the SIT and KAMF as-built documentation.

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$66,112.44 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 1 below for detailed breakdown of the variation amount Table 1

Role	Hours	Unit Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Systems Assurance			
Independent Professional Review			
Design Management			
	Total Varia	tion Amount	\$66,112.44

Infrastructure & Place

Automatic Train Protection Program 7 Harvest Street, Macquarie Park NSW 2113 PO Box K659, Haymarket NSW 1240 T (02) 9200 0200

ABN: 18 804 239 602



Adjustment to the Fee

The Fee is adjusted by a tump sum amount of \$56,112.44 (excl. GGT) to a total value of \$30,955,502.55 (exc. GGT) as detailed in Artechment A

Date for Completion

Funsuant to clause 4.5 S(a) of the Agreement the additional scope of Services under this variation is to be performed under Portion 22. Titl/S/N encessours to provide the as-built eignating inputs by 4.0 September 2021. Dased on this inputs date, the revised Date for Completion of Portion 22 and the Intermittent milestones for the submission of the Contract Materials are as detailed in table 2:

Table 2

Description	Date
THISW Variation and Inputs	1045eg=21
Portion 22-Validated Data Delivery	
Portion 22 - Assurance Mack Cellsery	
Fortion 22 Date for Completion	4 3

TfNBW reduction Alstom's acceptance of this variation no. 30 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutomben (Brighton Mutomben) and provided the space of th

Yours sincerely.



Nadine Somezg Principal's Representative

Daled:

Attactorious, Absoluted 4 - Revised For-

Senetics no 38 is accepted for end on behalf of Alaton, fransport (Australian Ma Lic.)

Segmentine	
blame (print):	
Position:	
Date: B	-

2/44



Attachment A - Revised Fee

Description	Value
Original hee	\$23,438,484.80
Option – Cata Dasign Resources for Area 7	\$726,433.20
Variation 1 Reworks to Portion 1 Contract Material	360×47.41
Variation 2 - Unproductive main from y Claim (/tpp)* 19 - June 19)	8504,400,00
Veragon 3 – Unoroducave meninous Claim (July 19 – Col. 2019)	\$282 Yes 00
Variation 4 – Amendment to Yard Entry & Extr. BEar at Homeby (Portion 2)	184 586 26
Variation 5 – Mission Tiles General on for Areas ∴ 5, 7, Fl and 9	552 245 40
Variation 6 - Unproductive man froms Claim (New 2019 - Feb 2020)	9551,040,00
Variation 7 – Revisika to the Contract Material to Troitions 1 to 4	3508,172.00
variation 6 - Non-Productive Man-Hours Costs (Mar/ 20 to May 20)	3773.611.84
Variation S → Fixed Calles Solution Areas 6, 7,7 & 0	5156 117 60
Variation 10 – Rewards, to Contract Material Portion 11 Katoonton to 101 Mo.	380 273 23
Variation 11 - Yard Entry & Exit BGs Area 1 Portion 3 - Spring	358.851,52
Variation 12 Reworks to the Contract Material for Portion 4 Concord West to Basterop. MCD 009	\$100,047.03
Variation 13 - Non-Impduouse Main Hours Costs (June 20 to Aug 20)	9205,081.26
Venezion 14 – Yang tortay & Esst SG (C-Link) (Antione 5-10 (Areas 686)	32737439
variation 15 – Yard Critty & Folt Calles Groups (CHlink) Portion 11 (Area 7.2)	\$6,002.74
variation (8 – Portions 6 Signal ing Design MODs	520 530 67
Variation 17 - Portion 5 Data Design of Additional BGs CB1 17 LT Removal	330 815.91
Variation 15 Portion 2 Homsby (MOD 002) NIT Duffels	300,683.07
Variation 12 – Son-Productive Man-Hours Coate (Sep. 20 to Dec. 2000)	\$590.515.75
Variation 30 – Portion 3 Area 3 Section Park Speed Sign changes MOCe001	50/1055.03
Variation 24 – KMMF Yard Entry and Exit Balise Strougs Data Design	\$161,581,03
Variation 22 Portion 2 Revised Signaling Design (MCD 003)	350 < 93.27
Variation 23 - Portion & Airport Line Speed Sign Changes	9100,628,91
Verargon 24 – Area V Hoad Bahas Spictorr	-3138 140.50
Variation 25 – Portion 7 Area 6 (MOG-200) Autour Signal ing Design. Changes:	\$0.0.
Variation 73 – Unproductive Man-Louise Claim - Jan 2074 - Mar 2021	5278 620 0
Variation 27 - Portion 5 Area 6 (MOD-202) NET Defects Changes.	5053610
Variador 25 - Areas 6 & 5 Pine Road LX MOD	381,888.70
Variation 25 Portion 14 (Arca 9.2) MOD 308	558,114,44
Variation 35 — Notion 15 (Area 2.5) (NOC-001 and CS451 LT changes)	\$284,218334
Variation 3.1 — Portion: 17 (Area S. 6) (MOD-202) Flerrington and Historice	\$117,973.00
Variado 1.82 — Portició 9 (Anea 6.2) - NITI Defects (MOD-602, MOD-608, MOD-604)	9311,817,94
Variation 23 — Notice / Quea 9/81 - Augum/Expositio L. (28006)	31/2/331/4
Variation 34 - Portion 5 - Area 5 Level Transition Removal (Week)	5.151.677.64
Variation 35 — Advach Z (New 1) Data Design Changes Due to Level. Transition Removal and Merging CB000	\$100,255,84

\$500\$50°



Version 25 – Yordon 12 (Area 6.3) Data Design Changes Due to Level Transition Installation at \$1 Capraid and I rack \$1ev Works C8005	9182 408.47
Warfarfort 37 — Area G Portion 7, N.T. Modifications	\$2127.09.65
Title Variation 20 - SIT and KANE As-built documentation	\$66,112.44
Revised Fee	\$30,958,832,53

9500,050



ATP Letter Reft 962/1102 Aletty Reft

Alstern Transport Australia Pty Ltd.; 16 GMnock Avenue, North Ryde, NSW 2113

Attentions

Door .

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 2 Trackerde Data Design (ISD-17-8580) ("Agreement")
Subject: Variation No. 35 – Area 9 Portion 12 (CB108) Data Design Changes
Due to Modified Signathing Design.

TfNSW makes reference to Alstom's letter hoted above, dated 19 September 2021, where Alstom submitted a variation proposal in response to TfNSW's letter ref. 6619950, dated 6 September 2021, which directed Alstom to amend the Contract Material for Portion 12 to include modified 8 gnelling Design issued via Tournbridge humanitariref ATP-TFNSW-ALS-CORR-000604, dated 3 September 2021.

Further to Astern's letter noted above, FINSW approximately that the inscalled Signatury Design with result in modification and reworks to the Centract Material for Portion 12 and constitutes a variation. As such, pursuant to clause 18.2 of the Agreement, TINSW issues this variation no. 39 to Alsternius detailed below:

Scope of Vanation:

Amend the Contract Material for Portion 12, as per the revised Signating Design transmitted to Aistom via Teambinder transmitted of: ATP-TFN8VAALS-CORR-000604 dated 3 September 2021, copy enclosed.

Variation: Amount:

Pursuant to clause 16.9(5) of the Agreement, the variation amount is \$74,518.02 (exchined in table 1 below:

Telre 1

Role	Hours	Rate	Amount
Data Proporation Liignatur Data Preparation Manager		:1X2-0415	0.00
Data Validation Engineer			0.00
Data Valotation Manager System Assurance			
Independent Professional Review			
Dongth Menepoment		Total	\$14,978.0

Intrastructura a Prace
Automatic Train Protection Program
7 (intractionity About and Ave. Net A. 2015)
India (14th CS. 15 even to RAA 2016)
T (22) \$200 5000
4514 15 534 259 500



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$74,818. 02 (excl. GST) to a total value of \$31,033,650.55 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 12 arising from this variation and the key milestones are detailed in table 2 below:

Table 2

Activity	Milestone
Portion 12 Validated Data Delivery	
Portion 12 Assurance Pack Delivery	
Portion 12 Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 39 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

Yours sincerely,



Nadine Bourezg Principal's Representative

Dated:

Attachments: Attachment A – Revised Fee TB Transmittal Ref. - ATP-TFNSW-ALS-CORR-000604

Variation 39 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _		
Name (print):_		
rvame (pmit)		
Position: _		_
Date:		

6624182 2 of 4



Attachment A - Sevicet Fee

Description	Value
Огран Зав	323,438,464,80
Collect — Data Design Resources for Area 7	\$776 123.20
Variation 1 Reworks to Fortion 1 Contract Material	\$50,447,44
Variation 2 Lungrod, olive main hours Chairt (April 19 June 19)	\$504,400,00
Variation 3 - Unproductive mat History Chaim (July 19 – Oc./ 2019) Variation 4 - Amendment to Yard Entry and Exit Ballise Groups at	\$352,765.00
Hornsby (Port on 2)	\$54.50.8.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 1, and 9.	\$52,242/0
Variation 5: Unproductive man hours Claim (Nov. 2018 – Feb. 2020)	3634,040,00
Variation 7 - Reworks to the Contract Material for Persons 1 to 4	\$508 112 93
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773 811 84
Variation 9 Revised Scope of Services Fixed Balise Solution Areas 6, 7.2 and 9	\$156 1 (2.60
Venelog* 18 - Rowarks to the Contract Material for Port on 11 Reference to Mil Vidore.	\$92,273.21
Verialish 11 - Americhiant is Yard Entry and Lot (felter Groups Area 1). For son S - Eppergr	\$10,011.52
Variation 12 Reworks to the Contract Material for Portion 4 Concord West to Bastwood MCD 000	\$103,947,03
Variation 13 - Non-Productive Manyhours Costs (Jone, 2016 Aug. 20)	\$205 061 28
Variation 14 - Yard Entry & Edit Balise Groups (C. Link) Portions 5 10 (Areas 680)	\$2731104
Sensition 15 - Year Unity & Lot United Caroups (C4 ink) Portion 11 (Area 7.2)	36 303.24
Variation 18 - Portions 8 Signaling Design MCDs	\$28 535.87
Sensing: 17 - Fortion & Data Cearge of Ariomonal Telesi Granes CT/17 C Level Transition Democrat	\$30,816,84
Variation 10 Fortion 2 Homsby (MOC 302) NIT Defects	\$96,523,97
Variation 19 - Non-Productive Man-Hours Costs (Sept 20 to Deef 2020)	\$552,515.76
Sensition 20 - Area & Portion & (Lauteott-Kertion Park - Liverpool) Berlan Park Speed Septicharque MCC-901	854 908.97
Variation 21 Kengy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$107,833,03
Verialist 52 - Porton 2 Revised Signalling Design (MCD+000)	\$507.25.27
Variation 20 - Portion S.A mort Line Speed Sign Changes	\$106,628,91
Variation 24 Area 9 Fixed Ballise Solution	3 30 140.99
Variation 25 Portion 7 (MOD 003) Autum 8 gnalling Design Changes	80.00
Variatio 126 - Unproductivo Man Hours Claim Jan 2021 - Mai 2021	\$279,628.10
Swindom 27 - Fración 5 (MCD+CQ) NE Dedecta	\$136 103 83
Variation 20 - Portion 7 and Portion 3 - Bine Road Level Crossing	\$81,090,70
Variador 25 - Pordor 14 Sved 9.2; MOD 009	958 114.44
Variation 80 Region 45 (Area 9.5) (NOC 00) and OB461 LT changes)	9204.218.04
Vereigen 31 — Yorden 17 (Area 9.6) (MOD-002) Historington and Eddomical	\$147,973.90
Vereiten 20 - Yorson & Over 8.21 - NT Celecte (MOD-002, MCD-003,	\$211,617,34

3524 (52



MOD-004)	18
Manager 93 Perger 7 (Area 9.8) Augum Edeonibe ET (CB195)	81/2 381.94
Warragon 34 - Pordon 5 - Assar S Level Triansachi Hambook (Wasil)	\$151.877.84
Variation 85 — Pertian 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CR008	\$108,252,94
Variation 33 – Portion 12 (Area S.3) Data Design Changes Diet in Level Transition installazion et St beginned and Trade, Stew Works C6005	\$132,408,47
Variation 37 - Area 6 Portion 7 ht T Modifications	\$712 (05.67
Variation 95 - 8 Tiants KWF As built decomposation	\$5611244
This Variation 38 - Portion 12 Area 9 Modified Signalling Design (CRIDES)	174,818,00
Positional Post	534 (133,850.55

5524 (52



ATP Letter Ref: 6624483 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear ,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 40 – Area 8 Portion 9 (CB032) Data Design Changes

due to Modified Signalling Design

TfNSW makes reference to its previous letter ref: 6598261, dated 7 June 2021, where TfNSW issued a modified AEO Design Package (CB032) of the Signalling Design for Portion 9 Area 8.2 to Alstom to amend the Contract Material for Portion 9; and Alstom's above referenced variation proposal, dated 13 September 2021, where Alstom advised that there is no cost impact to the Fee arising from this modification.

Further to the above, and pursuant to clause 16.2 of the Agreement, TfNSW issues variation no. 40 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material for Portion 9, Area 8, as per the revised Signaling Design for Portion 9 transmitted to Alstom via Teambinder transmittal ref: ATP-TFNSW-ALS-TX-000316, dated 7 June 2021, copy attached.

Variation Amount:

Pursuant to clause 16.3(b) of the Agreement, the lump sum variation amount is \$0.00 as there is no impact to the Fee resulting from the changes to the Services under this variation.

Adjustment to the Fee:

There is no adjustment to the Fee and remains at a total value of \$31,033,650.55 (excl. GST) as described in Attachment A.

Date for Completion:

There is no impact to the Date for Completion of Portion 9 arising from this variation.

1 of 4



TfNSW requests Alstom's acceptance of this variation no. 40 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).

Yours sincerely,	
Nadine Bourezg Principal's Representative	Dated:
Attachments: Attachment A – Revised Fee TB Transmittal Ref ATP-TFNSW-ALS-TX-0003	316
Variation 40 is accepted for and on beha	alf of Alstom Transport Australia Pty Ltd:
Signature: _	_
Name (print):_	_
Position: _	_
Date: _	_

66824483 2 of 4



Attachment A - Sevicet Fee

Description	Value
Огрпи (ыв.	323,438,464,80
Dollor — Data Design Respenses for Area 7	\$726 123 20
Variation 1 Reworks to Fortion 1 Contract Material	\$50,447,44
Variation 2 Lungrod, silve man hours Claim (April 19 June 19)	3604,400,00
Variable: 3 - Engloded se mar Hidars Chain (July 19 – Oc./ 2019)	\$352 765 00
Variation 4 - Amendment to Yard Entry and Exit Ballise Groups at Homsby (Port on 2)	\$54 50.8.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 5 and 9.	\$52,24270
Variation 5 Unproductive man hours Glaim (Nov. 2018 - Feb. 2020)	3634.040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508 112 93
Variation 8 - Non-Productive Man-Hours Costs (Mar/ 20 to May/ 20)	\$773 811 84
Variation 9. Revised Scope of Services. Fixed Balise Solution Areas. 6, 7.2 and 9.	\$186112.60
Venelog 181 - Rowarks to the Contract Material for Port on 11 Reference to Mil Vidbare	\$82,270,23
Verteinth 11 - Amendment to Yard Linky and Lat Belliot Groups Area 1. Foreign S - Eppend	\$10,011.52
Variation 12 Reworks to the Contract Material for Portion 4 Concord West to Eastwood MCD 000	\$108,947,03
Variation 13 - Non-Productive Manyhours Costs (Jone 2016 Aug 20)	\$205 061 28
Variation 14 - Yard Entry & Edit Balise Groups (C. Link) Portions 5 10 (Areas 680)	\$27,311,04
Menulatin 15 - Yerd Linky & List Better Caroups (C4 ink) Portion F1 (Area 7.2)	36 000.24
Variatio: 18 - Portions 8 Signaling Design MCDs	\$28,535,67
Sension 17 - Porton & Data Cestgo of Ariomona (Teires Grands CT)*17 - Level I renation (Temporal	830 818 84
Variation 10 Fortion 2 Homsby (WOC 002) NIT Defects	\$96,523,97
Variation 19 - Non-Productive Man-Hours Costs (Sept 20 to Deef 2020)	\$592,515.76
Sensition 20 - Area & Portion & (Lauteoti- Certion Perk Liverpool) Berlan Perk Speed Egyp changes WDC-1801	854 838.87
Variation 21 Kengy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$107,884,03
Verialist 52 - Porton 2 Reward Signal on Design (MCD+000)	\$507.25.27
Variation 20 - Portion S Airport Line Speed Sign Changes	\$106,628,91
Variation 24 Area 9 Fixed Ballise Solution	3 30 140.99
Variation 25 Portion 7 (MOC 003) Autum 8 gnalling Design Changes	80.00
Variatio 126 - Unproductive Man Hours Claim Jan 2021 - Mai 2021	\$279 628.10
Sension 27 - Frecon SchWCD+CQ(N) Detects	\$136 103 83
Variation 20 - Portion 7 and Portion 8 - Bine Road Level Crossing	\$84,090,70
Variador 25 - Pordor 14 Sved 9.2; MOD 009	958 114.41
Variation 80 Region 45 (Area 9.5) (NOC 00) and OB461 LT changes)	9204-218-04
Vereigen 31 — Yorden 17 (Area 9.6) (MOD-002) Historington and Eddomical	\$147,973.90
Vereiten 20 - Yorson & Over 8.21 - NT Celecte (MOD-002, MCD-003,	\$211,617,34



MOD404)	18
Manager 93 Person 7 (Area 9.6) Augum Edeonibe L. (08:06)	\$172,381.94
Manager 34 - Parager 5 - Appar 5 Level Triansport Hampwall (West)	\$151.877.84
Wariation 85 — Pertian 2 (Area n) Data Design Changes Due to Level Transition Removal and Merging 20008	\$108,257,94
Variation 32 – Portion 12 (Assa S.3) Data Design Changes Due to Level . Transition installation at St begins dismonthed, Slew Works C6005	\$132,408,47
Warlarion 37 - Area 6 Portion 7 N.T. Maddischillans	\$712 105.63
Variation 95 - 8 Trains CAME As built determination	\$5611244
Variation 39 - Perform 12 Area 5 Modified Signaling Cosign (CB008)	574,818,02
This Variation 40 - Area 8 Portion 9 (CB032) Signalling Design Chan	\$1.10
Ravisori Fee	\$24,020,650,55



ATP Letter Ref: 6624731 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear ,

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) ('Agreement')

Subject: Variation No. 41 – Area 8 Portion 10 NIT Modifications

TfNSW makes reference to Alstom's above referenced letter, dated 13 September 2021, where Alstom submitted a variation proposal for Portion 10 (Area 8) in response to the following TfNSW correspondence:

- TfNSW's letter ref. 6604247, dated 1 July 2021, which directed Alstom to amend the Contract Material for Portion 10 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000336 on 30 June 2021:
- TfNSW's letter ref. 6604717, dated 2 July 2021, which directed Alstom to amend the Contract Material for Portion 10 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000341 on 2 July 2021; and
- 3. TfNSW's letter ref. 6611239, dated 28 July 2021, which directed Alstom to amend the Contract Material for Portion 9 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000356 on 27 July 2021.

Further to the above, TfNSW acknowledges that the modified Signalling Design has resulted in modification and reworks to the Contract Material for Portion 10 and constitutes a variation. As such and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 41 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material for Portion 10, Area 8, to incorporate the changes in the Signaling Design transmitted to Alstom via the following Teambinder transmittals:

- Teambinder transmittals ref: ATP-TFNSW-ALS-TX-000336 issued on 30 June 2021 (copy enclosed);
- Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000341 issued on 2 July 2021 (copy enclosed); and
- Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000356 issued on 27 July 2021 (copy enclosed).

Infrastructure & Place

Automatic Train Protection Program
7 Harvest Street, Macquarie Park, NSW 2113
Locked Bag K659, Haymarket NSW 1240
T (02) 9200 0200
ABN: 18 804 239 602



Variation: Amount:

Funs, art. to clause 15.3(b), of the Agreement, the variation amount is assessed at \$220,750,02 (exc), GST) using the hourty rales under 3cheoule 6 of the Agreement and as amended under TfN3W letter ref. 5539030 dated 12 May 2021. Please refer to table 1 below for detailed preakdown of the variation amount.

Table 1

Role Hours Rafe Amount

Data Preparation Engineer

Data Validation Engineer

Data Validation Vanager

System Assurance

Respondent Professional Housey

Design Management

Total \$228,783, 82

Adjustment to the Fee:

The Fed is adjusted by a temp sum amount of \$228,788, \$2 (evet, CBT) to a total value of \$31,262,434,37 (exet, CBT) as detailed in Attachment A.

Date In: Completion:

The impact to the Date for Completion of Port on 10 arising from this varietion and the key milestones are detailed in table 2 below;

-	•	-	-
	•	_	

Artivity	Missions	
Validated Data Delivery		
Assurance Pack Delivery	15	
Date for Completion	15	

TfNSW requests Alstom's acceptance of this variation no. 11 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutomben (Brighton Mutomben).

Yours sincerety.

Nedice Bourses

Principal's Representative

Dukett

Afterheart Team Sinder reference no. ATP-TTNOW-ALS-TX-600336.

Listane in the reference on ATP-TTNOW-ALS-TX-600336.

Listane in the reference on ATP-TI-1007A-ALS-TX-600336.



Variation 41 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _
Name (print):_
Position: _
Date:

6624731 3 of 5



Attachment A.- Revised Fee

Description	Value
Orgina Fee	829,438,464,90
Option - Data Design Resources for Area 7	3735 123.20
Version 1 - Boworks to Fortion 1 Contrest Metional	\$50 44 64
Veriation 2 - approductive men-bours Claim (April 19 - June 19)	\$104,400,00
Variation 3 - Unproductive man hours Claim (July 19 - Oct 2019)	\$352,765,00
Venetion 4 - Amendment to Vend I hits and I for the Groups at Hometry (Port on II)	\$54,096,26
Variation 5 - Mission Files Concration for Arcase 1, 6, 7, 5 and 0.	\$52,242,40
Variation 6 - Unproductive man-bours Claim (Nov. 2019 – Feb. 2000)	\$654,040,00
Variation Z - Reworks to the Contract Material for Portions 1 to 7	\$5001 12.98
Variation 5 Non-Productive Man Hours Costs (Mar' 20to May' 20)	\$773,811,84
Veriefion 9 - Recreed Sooperof Services - Liced Balase Schmon Areas. 6-7-2 and 9	\$156 112 60
Variation 10 Reworks to the Contract Material for Portion 11 Katoombe to Mt Viotoria	\$90,273.25
Variation 11. Amendment to Yard Entry and Exit Ballise Groups Area 1. Portion 3. Epping	\$50,350,57
Venetion 12 - Revolve to the Contract Material for Port on 4 -Concord Weed to Lastweed – MCD-RCS	\$108,947.03
Variation 10 - Non-Productive Man. Hours Costs (June) 20 to Aug. 20)	\$225 021 23
Vertebon 14 - Verd Tintry & Usri Datise Groups (C4 link) Promons 5-10 (Areas 560)	827,314,04
Variation 15 Yard Entry & Edit Balise Groups (C. Link) Portion 11 (Area. 7.2)	56 305 24
Variation 16 - Portions 6 Signaling Besign MCDs	\$20,525,67
Variation 17 - Portion 6 Date Design of Adaltional Ballise Groups CB117 : Level Transition Formoval	Na ai nars
Variation 18 - Portion 2 Hornstor (MOCI-002) NT Defects	\$96,525,97
Variation 18 - Non-Productive Man-Hours Zosts (Sept 20 to Dec 2000)	\$592 515 70
Variation 20 - Area S Portion S (Painfield, Setton Park - Liverpool) - Setton Park Speed Sign changes MDC-001	\$50 050 07
Venetion 21 – Karigy Angy Maintenance Facility (KAMT) Yard Tibbs, and Exit Balice Groups Data Design	\$184,981,03
Variation 22 - Portion 2 Revised Signalling Design (MOD-009)	850,433,27
Variation 23 - Perfort 9 Amper) Line Speed Sign Changes	\$106,628,91
Senator 24 - Area 91 percitates Solution	-\$126,140,50
Senebor 25 -Poding 2 (MITC-ROS) Autum Signal no Design Changes	50.00
Variation 26 - Unproductive Wan Hours Claim Jan 2021 - Mar 2021	3279 626 10
Variation 27 - Portion 5 (MOD C02) NIT Defects	\$ 35163.83
Variable: 13 - Perford 7 and Perford 8 - Pine Hoad Level Cleasing	\$51,308,70
Variation 29 - Portion 14 (Area S.2) MOID-0001	583 414 44
Variation 30 Portion 15 (Area 9.5) (NOO-00), and GB481 LT changes)	576-2-3 04
Variation 91 - Portion 17 (Area 9.6) (N/OD-202) Flemington and Lideanine	\$147,073,00
Variation 32 – Portion C (Area 6.2) - NET Defects (MDD-602, MCD-603, MDD-4034)	9311.617,94



Variation 23 ÷ Portion 7 (Area 8 6) + Audum-Udoombe LT (CB086)	\$172,721.81
Variation 34 Person 5 Voca 8 Level Transactin Removal (West)	\$151,677,84
Variation 35 — Portion 2 (Area 1) Data Design Changes Due to Level- Trians from Manayat and Marging 28000	9108.209.04
Variation 35 — Youdri 12 (Alex 9.3) Data Design Changes Due to Level Transition Installation of St Deprind and Track Stew Works CS005	\$132 (83 //7
Variation 37 – Area 6 Portion 7 N T Modifications	\$212 (05 61
Variation 35 - S.T. and KAME As-holit documentation	\$56 112 44
Variation 30 Pointer 12 Ald a 1 Mod field Signaling Design (CB008)	\$74,818,02
Variation 40 - Area 8 Portion 9 (C8082) Signaling Design Chan	50,00
This Veriation 41 - Area 5 Portion 10 MIT Modifications	\$220,783, 02
Revised Fee	\$11,782,434,37

5.45



ATP Later Ret 600/000 Aleton Ref.

Alstein Transport Australia Pty Ltd., 16 Offnack Avenue, North Ryde, NBW 2113

Attention: E

Door .

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 6 and 9 Trackarde Cate Design (ISC-17-8560) (Agreement') Subject: Variation No. 42 – Portion 18 Area 5.1 Level Transition Installation Redlem - Amendment to Contract Material

TRISVA makes reterinde to Abatan's above represented fattor, dated 13 September 2001, where Alaton automated a variation proposal for Person to (auto-Area 9.1), in resource to TINEW's letter ref. e595897, dated 27 May 2021, where TINEW issued the AEO accorded September Describe level transfer installation at Rectain.

LISSAV secronaloopes that the attra-noted Septe Imp Dusign will result in modification and rewarks to the Ecologic Material for Portion 16, in particular CR2R2, and constitutes a variation. As such and pursuant to clause 16.2 of the Agreement, LISSAV source, variation to 42 to Alaton as did a led tectra.

Scope of Variation:

Amend the Contract Material for Person 18, setAArea 5.1, as set the Signating Design for Porton 18 personited to Aistom via Teampinder transmittel of, ATP-TFNSWALS-TX-000278 on 31 Wards (101), copy tendestal.

Variation Amount:

Functions to dense (8.5b) or the Aprendent the wanton amount is assessed at \$55,055 All (eq.) (46.1) using the boarty relectivistic under Schedule S of the Appendiculation and as entended under TINGA table od (5.8540) detect 17 May 2011. House take to table 1 below to detect on the Control of the review of th

Lette I

Rule	House	Rate	Amount
Data Preparation Engineer		1	
Data Preparation Manager		E (1)	7 1
Data Vandafür Erginoci Data Vandafür Manager			- 1
System Assurance			
neependent Projessional Review Design Management			
9 77 70	- 40	Total	\$50.150.70

Infrastructure is Practic Automatic Train Protection Program 2 franciscottoris Notas and Ave. 1974; 2015 Install Ave. 68 (Proceeds 1964) 2016 Tricky 6200 5000 4814; 15 834 200 600.



Adjustment to the Fee:

The Fee is adjusted by a lump sum amount of \$58,158.70 (excl. GST) to a total value of \$31,320,593.07 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 18 arising from this variation and the key milestones are detailed in table 2 below:

Table 2

Activity	Milestone
Portion 18 Validated Data Delivery	
Portion 18 Assurance Pack Delivery	
Portion 18 Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 42 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutombeni (Brighton.Mutombeni@transport.nsw.gov.au).



Nadine Bourezg Principal's Representative

Dated:

Attachments: Attachment A – Revised Fee TB Transmittal Ref. - ATP-TFNSW-ALS-TX-000278

Variation 42 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _	_
Name (print):_	_
Position: _	_
Date:	

6624860 2 of 4



Attack	honord	4	Revised	For
MATERIAL STREET	10117-111		ru, mas, u	100

Allachment A Revised Fee Description	- Value
Orgina Fee	520,420,464,00
Option – Data Design Resources for Area 7	\$705 120.20
Variation 1 - Reworks to Portion 1 Contract Material	850 47.4
Variation 2 - Unproductive manifectus Claim (April 19 - June 19)	\$504,400,00
Venelor 3 - unproductive mentioner Chem (Rdy 19 – Oct 2019)	\$352,765,00
Variation 4 - Amendment to Yard Entry and Exit Balise Groups at Hemstry (Perford)	\$24,566.20
Variation 5 Mission Files Generation for Areas 1, 6, 7, 5 and 9	\$52,242,40
Variable: 8 - Engroductive man-Hours Craim (Nov. 2019 – Feb. 2020)	\$651 040 00
Variable: 7 - Howorks to the Contrad Material for the some 1 to 4	\$508 112 90
Variation 5 - Non-Productive Stan-Hours Costs (Mar. 20 to May, 20)	\$723,014,04
Variable: 9 - Revised Scope of Services - Fixed Balise Soution Areas	2000 CO NO CON
S 7.7 end S	\$ 56 12 60
Seriefion, 10 - Reworks to the Contract Material for Port on, 11 Ketoomha to Mr Victoria	\$52,273,28
Variation 11 - Amendment to Yard Frony and Fait False Groups Area 1 - Portion N - Epoing	\$53.351.52
Variation 12 - Rewarks to the Contract Material for Port on 4 - Concord West to Bushweed - MOE-008	\$ 00 847 02
Verteinth 13 - Nort-Productive Man-Linux Cours Junior 20 to Aug. 30:	\$256 061 26
Variation 14 - Yard Entry & Exit Bariso Croups (C-Link) Portions 5-10 (Arrest 0XX)	\$27,014,01
Variation 15 - Varo Entry A Ext. Ballise Groups (C-Unik) Portion 1 L(Area. 7.2).	58 303 24
Vension 16 - Forecos & Segueling Cosepi MCDs	\$2853587
Variation 17 - Portion 6 Data Design of Adolftonal Balise Groups CB1 17.	10000000
Level Transition Removal	\$30 818 84
Variation 18 - Fortion 2 Homatis (MDC-001) NTT Outcids	\$56 533 97
Samehor 19 - Nors-Andreaday: Man-Irguns Costs (Sept 20 in Used 2000)	\$5,00 515 76
Variation 28 - Area & Portion & (Fairfield- Setton Park - Uverpool) Setton Park Boeed Sign changes MOD 001	\$54.858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Year Entry and Lat. Let ve Greates Date Descon	\$ 54,531.00
Variation 22 - Portion 2 Revised Signalling Ceston (MCD 003)	\$30 < 20 27
Variation 20 Portion 8 Airport Line Speed Sign Changes	\$ 06 620 91
Variation 24 - Area 9 Face Ballac Solution	-8138 140.99
Variation 25 - Portion 7 (MOC-903) Auburn 8 greating Design Changes	50.00
Venelion 26 - Unproductive Man-Louis Claim - Jan 2021 - Mar 1921	\$279,626.10
Variation 27 - Fortion 5 (MCD+CCC) NET Detects	\$125,443,03
Variation 28 Point on 7 and Point on 8 Pine Road Level Crossing	\$91,398,70
Variation 25 Person 14 (Vica 9.2) MOS 508	253.114.44
Variation 30 - Portion 15 (Area 9.5) (N/0.0-00) and CR451 ET changes)	\$284,213,04
Variation 31 – Portion 17 (Area S.C) (M.O.D002) Elemington and Lidocrate	\$147 973 30
Vereign 30 — Yordon 6 (Area 8.2) - Ni - Defects (MOD-002, MOD-003) MOD 004)	\$241.017.34



Revised Fee	\$11,320,591.07
This Variation 42 – Portion 18 – Area 9 Redforn (CB2ff2) - Level Transition.	\$58,658,70
Variation 4.1 – Area & Portion 9 (CS082) Signaling Design Chan Variation 4.1 – Area & Portion 10 NIT Modifications	500,00 5224,753, 42
Variation 93 Pointer 12 Alca J Modified Signaling Design (CB008)	\$74,818,02
Variation 35 – 5 T and KAME As-holit documentation	\$5611244
Variation 37 – Area C Portion 7 N T Modifications	\$212 (05 61
Variation 35 — Youth 12 (Area V.3) Data Design Changes Due to Level Transition Installation of St Deprind and Trade Stew Works OBUCS	\$132 183 47
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level . Transition Memoyal and Marging 08009	9108.209.04
Variation 34 Person 5 Vissa 8 Level Transactin Removal (West)	\$151,877,84
Variation 33 ÷ Portion 7 (Area 8.6) ÷ Autum-Udoombe LEI (CB086):	\$172,281,91



ATP Later Ref. \$22×50× Alton Ref.

Alstein Transport Australia Pty Ltd., 16 GMnack Avenue, North Ryde, NBW 2113

Aftention: 8

Dear .

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Besign (ISB-17-6580) ("Agreement")

Subsect: Variation No. 43 – Area 8 Portion 8 MT Modifications

FINSW makes reference to Alston's above referenced better, dated 13 September 2021, where Alston's sportfed a variation proposal for Person 8 (Area 8) in respects to the FINSW's latter on 6994253 based 2 July 2021, which decided Alston' to among the Derihad Material for Person 8 arising from the imposted Eignating Design issued was teambridge transmittative. All VIENSWAUS-13-000335 on 30 June 2021.

Further to the above, TfNS/A acknowledges that the modified Signaling Design has resulted in modification and reworks to the Contract Materia for Portion 0 and constitutes a variation. As such and pursuant to dause 15.2 of the Agreement TfNS/A issues this variation no. 43 to Alstom as detailed below:

Scope of Variation:

Amend the Contract Material for Portion 8, Area 8, to incorporate the changes in the Signature Design transmitted to Aleton, via Teamhinder transmitted self-ATP-TEAS/A-ALS-1 84001250 (sessed on 30 June 2021 (rappy engased)).

Variation Amount:

Fursiant to clause 15.0(b) of the Agreement the variation amount is assessed at \$60.747.27 [seed, GCT) using the hourty rates under Schedule 6 of the Agreement and as amended under TfNSW letter ref. 6539030 dated 12 May 2021. Please refer to table 1 below for detailed preaktiows of the variation amount.

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Automorio Train Protection Program
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Adjustment to the Fee:

The First is edjusted by a temp sum amount of \$80,747,74 (excl. GST) to a total value of \$31,340,51 (excl. GST) as data fed in Alfechment A

Date for Completion:

The impact to the Date for Completion of Portion 8 arising from the variation and the key milestones are delayed in table 2 by my:

Table 2

Activity	Milestone
California Data Delivery	The state of the s
Assurance Pack Oct very	
Date for Completion	

TINEW reducate Alatom's acceptance of this variation no. 43 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutamben (Erichton Alutomben) Stransporting—dow, but.

Yours a neuroly,	
Nadino Bourczy Principal's Representative	Dwedt
Greitment transverschindiger is A.P. HISAAA	A 1418644
manipular d'a un una plant des unes en cabul et à	elem Transport & prod is Ety I i

Signature:

Position: PE

Date: 55



Attachment A.- Revised Fee

Description	Value
Orginal Fee	829,438,464,90
Option – Data Design Resources for Area 7	3735 123 20
Version: 1 - Roworks to Fortion 1 Contract Metional	\$50 4444
Veriation 2 - Exproductive man-hours Claim (April 18 - June 19)	\$504,400,00
Variation 3 - Unproductive man hours Claim (July 19 - Oct 2019)	\$352,765.00
Venetion 4 - Amendment to Vent Entry and Fix I flatise Groups at Homstry (Port on II)	\$54,096,06
Variation 5 - Masson Files Contrator for Arcas 1, 8 7, 8 and 0	\$52,242,40
Variation 6 - Unproductive man-hours Claim (Nov. 2019 - Feb. 2000)	\$654,040,00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$500 12.88
Variation 5 Non Productive Man Hours Costs (Mar' 20te May' 20)	\$773.811.84
Venetion 9 - Remeat Soope of Services + Fred Balase Schmon Areas 6-7:2 and 9	\$156 112 60
Variation 10 Reworks to the Contract Material for Port on 11 Katecinia to Mt Viotoria	\$92.273.25
Variation 11. Amendment to Yard Entry and Exit Ballise Groups Area 1. Portion 3. Epping	\$50,051,57
Venetion 12 - Reworks to the Compact Material for Port on 4 -Concord. Veed not astwood – NCD-403.	\$108,947.03
Variation 10 - Non-Productive Man. Hours Costs (June) 20 to Aug. 20)	\$225,021,23
Verteinon 14 - Verd Toto & Ext Dates Groups (C-Link) Framons 5-10 (Areas 5-80)	827 314 04
Variation 15 Yard Entry & Edit Ballso Groups (C. Link) Portion 11 (Area. 7.2)	56 305 24
Variation 16 - Portions 6 Signating Design NGDs	\$20,525,67
Variation 17 - Portion 6 Date Design of Adeltione Ballise Groups CB: 17 - Level Transition Formoval	\$20.016.04
Variation 101- Foction 2 Homsty (MOO-2002) NT Defects.	\$96 525 97
Variation 18 - Non-Productive Man-Hours Costs (Sec. 20 to Dec. 2000)	\$592.515.70
Variation 20 Area & Portion & (Painfield, Sefton Park Liverpool) Sefton Park Speed Signishangus MOC-001	\$50 850 87
Venetion 21 – Karigy Arcty Maintenance Facility (KAMF) Yard Fifthy and Exit Balise Groups Data Design	\$184 981 03
Variation 22 - Portion 2 Revised Signaling Design (MCD-009)	850 433 27
Variation 23 - Perfor 9 Arpert Line Speed Sign Changes	\$106,628,91
Venetion 24 - Area 91 perc. Teller Solution	-5128 140 58
Venetion 25 - Portion 2 (MID CHICS) Autum Signal ind Design Changes	50.00
Variation 26 - Unproductive Wan Hours Claim Jan 202 - Mar 2021	3279 626 10
Variation 27 Fortion 5 (MOD C02; NF Defects	\$135163.83
Variable: 12 - Merion 7 and Merion 8 - Pine Hoad Level Clossing	\$51,308,70
Variation 29 - Portion 14 (Area S.2) MOIO-0001	583 114.44
Variation 30 - Portion 15 (Area 8.5) (NOO-00), and CB481 LT changes)	\$26-2-9.04
Variation 81 - Portion 17 (Area 9.6) (IVOD-202) Flemington and Lidganize	\$117,073,30
Variation 32 – Portion C (Area 6.2) - NET Defects (M.OD-002, MCD-003, MOD-004)	9311.617.94



Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level (at transition Removal and Marging 2800V) Variation 35 – Variatin 12 (Alice V.S) Data Design Changes Due to Level (high station Installation at 8) Deprind and Track Slew Works C8005	72,731,94
Transifion Remoyal and Marging CB000 Variation 35 — Voter 12 (Alex 9.3) Data Design Changes Due to Level Transifion Installation at St Deprised and Trade Stew Works CB005	51.877.84
Ingradion Installation of St Deprind and Track Stew Works CB005	08.209.04
	32 163 47
Warfarfort 37 – Area 6 Portion 7 N T Modifications. \$2	12 (05 61
Variation 35 – 3 T and 4986F As-holli documentation \$	\$5611244
Variation 30 Pointer, 12 A card Modified Signaling Design (CB108) #	74,818, 02
Variation 45 Area 8 Portion 9 (C8032) Signaring Design Chair	50,00
Vertetion 41 – Area & Portion 10 NFT Modifications 52	20,783, 02
Variation 42 - Portion 15 Area S Reciters (CR202) - Level Transition \$	55, 55, 70
This Variation 43 Portion 8 Area 9 (CBE22) NIT Modifications 4	60,747,74
Roykott For \$31.3	61.340.91



AT Fit da Ret \$941698 A MOY HOT

Alaforn Transport Australia (1) Util 10 G Phock Avenue, North Evde: NSW 21, 1

Attendo n

Desc.

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackarde Data Design (ISD-17-8589) ("Agreement") 8ultjact - Variation No. 44 - Portion 7 - Area 6 Hamis Park 8 Norrylands Design ModHisations (NOD-300 & MOD-011)

ThisNy makes reterence to Alstomic above reterenced tehen dated 11 November 2001 where Alstom automatics a variation propose for Portion 7 to be 81 in response to 1 NoVA's correspondence letter ref. 6681661, toted 12 October 2021, where TINSN's directed Alstom to amend the Contract Material for Portion 2 arising from the modified 5 grading Design assective transfer sensor have an Italian ALP IFMSNIADS CONSTITUTE of 2 October 2021.

Further to the above, TINSW admost edges that the modified Signaling Design has resulted in modifical on and rescribe to the Contract Material for Portion 7 and constitutes a variation. As such and constitutes a terration to 3 such and constitutes at terration to 44 for Asiatra as detailed helps:

Scope of Variation:

Amend the Contract Material to Portion 7. Area 6. as per the revised Signaling Design battern bed to Alston, via TeamBinder transmittal ref. ATE-TENSW-ALS-CORR-CORR-constraints on 2 October 1001 (copy endoared)

Variation Amount:

Fureteen to decide 18.3(b) of the Agreement, the variance sensurities assessed at \$135,616.12 (excl. CST) using the nounty rates under Schedule 8 or the Agreement and as amended under TNSW letter of \$689,030 dated 12 May 2021. Please refer to table 1 polewise data led treatment of the variation amounts.

Table 1

Role	Hours	Unit Rate	Airroune.
Data Propa each Engaled Data Preparation Manager			
Data Validation Engineer		- 1	100
Data Validation Manager System Assurance			
Independent Professional Review			900
Design Hanagement		Total	\$135.900.0

Intractination is Provided Automatic Train Protection Programs

/ How John II, March III and HAYA 2112

Including Office Research RAYA 2138

T (22) 9200 5200

4514 15 534 259 600



Adjustment to the Fee.

The Feer's adjusted by a form sum arrow at of \$195,918.12 (exet 987) to a total value of \$3.15.17,750 PO (exet 967) as detailed in Attachment A

Date for Completion:

The impact to the Cate for Completion of Pertian 7 arising from this variation and the key releasing are detailed in table 2 below:

Table 2

Accords	Milestone
Validate: Data Delbery	Tresonatts.
Myserance Pack Octivery	
Cale or Compation	

FRMAN requests Asierra acceptance of the variation no. 44 by signing in the apace provided below and returning a signed copy in its entirety to Erigition Mutomben (B) phon Mutomben (B) kenspectures govern).

Yours amorney.



Alia Kamman

Principal's Representative

Dutces.

Vertexon 44, a appealed for and on behalf of Alaton Transport Australia Pty List.

Signature:	
Name quira_g	7). 2)
l'oefich:	
Date #	8

\$541500 PMC



Ameriment & Raidsed Fee

Description	Witte
Ongina fee	\$23,438,464.00
Option – Data Resign Resources for Area 7	\$775,123,20
Variation 1 - Rewards to Portion 1 Contract Marerial	300 1/7 48
Variation 2 - Unproductive maniholits O alm (April 15 - June 16)	9504.400.00
Variation 8 - Unproductive manifectrs Craim (July 19 - Oct 2015)	9362 795.00
Variation 4 - Amendment to Yeld Entry & Ent. Selse Groups of Homesty. (Portion Ly	364,596.26
Version 5 - Moseon Free Cemeration for Areas 1, 5, 7, 5 and 9	552,242,40
transmitted 6 - Unproductive man-hours Claim (Nov/ 2019 - Feb 1020)	\$554,040,00
Variation 7 - Deworks to the Continual Material for Fortions 1 to 4	\$10011.189
Variador: 8 - Non-Producti ve Man-Hours Costs (Mair 20 to May/ 20)	\$773.611.91
Variation 0 Revised Boose of Services Fixed Ballist Selation Areas 0, 7.2 and 0.	\$156 112.60
Variadon 10 - Reworks to the Congrapt Material to Portion 11 Katoo nite to . Mt Words	592 273 25
Variation 11. Amendment to Yard Birtry and Exit Barise Groups Area 1 Fortion 3 – Eppins	\$53.56° as
Variation, 12 - Reworks to the Contract Material for Portion 4 -Contact) West to Bastwago - MCC-003	\$108,947.03
variation 13 - Non-Erchitchive Man-Hours Coets (June 130h) Aug (20)	\$205.001.2
Variation 14 - Yard Entry & Ex) Ballac Groups (2 Lim) Portions 6 10 (Alena 766)	527,514,0
Vorlador: 15 - Yard Entry & E∗ (Balisé Groups (2-Link) Portion: 1 (Area ' 7-7)	58,503.24
undarlon 17 - Portions & Signalling Design MODS	520 535 60
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	550 B16.8
Variation 15 Portion 2 Homssy (MCE: 002) N T Delega:	500,588,07
Variation 15 Non-Productive Man Hours Costs (Sop. 20 to Dec. 2020)	\$502,515,70
Variation 20 - Arisa Silfort on Silfrantiald- Setton Park - Erversoot) Setton Flask Speed Sign changes MOD 651	70° 057 0
Variation 21 Kengg Angy Maintanents, February (KAWE) Yard Entry and Extry Ballse Groups Data Data gn	\$ 124.501.01
Vereign 22 — foreign 2 Hay and Eighelling Design (NOD-003)	150,4312
Variation 23 — Portion 9 Aircorl Line Speed Sign Changes.	\$ 106 824 9
Variation 34 – Area S Elized Balline Solution	-\$100 to 0.5
Variation 25 – Port on 7 (MODH003) Aubum Signalling Design Changes	\$0.0
Variation 25 Unproductive Man Hours Claim Jan 2021 Mar 2021	9270 020,10
Vanade: 27 Portion 9 (NOC 002) NTI De ceta	\$155,163.8
Variation 25 — Notice 7 and Portion 5 — The Ruse Layel Crussing	\$91,598,70
Variation 22 – Partice 31 (Aren S.2) MOD-203	55031438
Variation 80 - Portion 15 (Area 9.6) (MOC 00) and 09451 LT changes)	920/ 2:8:0:

25(155)



Variation 31 - Portion 17 (Area 9.6) (MOD-002) Plemington and Hidacrabe.	\$117,973,90
Variation 82 Perdone (twee 0.2) INIT Defects (MOD 602, MOD 608, MODH604)	\$311,817.34
Variation 33 + Portion 7 (Area 8.6) - Augum-Liticombe L™ (CBC6G)	\$172,231,94
Variation 34 — Notice & James & Lovel Triangle on Homovel (Most)	8151.877.64
Variation 35 — Nortich 3 (Area 1) Data Design Changes Due to Leviel Transition Removal and Minging CB009	\$100,203,94
Variation 25 — Perden 12 (Area U.3) Data Design Changes Due to Level Transition (Installation a) St Lephard and Track Siew Works 08005	\$172 491 47
Variation 97 Acca 6 Portion 7 NT Modifications	\$212,485,88
Variation 35 – S.T. and KAME As-hulf documentation	286 117 44
Variation 39 - Portion 12 Area S Modified Signaling Design (CR000)	\$74,040,02
Variado : 42—Area 8 Portion 9 (CB082) Signal ing Design Chan	20.00
Variation 41 Area 8 Portion 10 NIT Modifications	5228,765, 82
Variation 42 - Action 18 Area & Heatern (CB202) - Level Transaces	\$55,75,70
Variation 43 — Yorgon & Area & (Clott25) NIII Modifications	\$60,747,74
This Vension 44 - Portion / Ares 6 Hame Park & Merrylands (MCC- 668 & MCC-611)	\$135,819.12
Royked Fee	\$31,517,208.63

95(455)



ATP Letter Ref: 6655358 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)
AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580)

Subject: Variation No. 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops-

Amount Determination

TfNSW makes reference to Alstom's above referenced letter dated 14 February 2022, where Alstom submitted a variation proposal for Portion 23 Area 3 and Area 6 ETCS Train Stops in response to:

- TfNSW's letter ref. 6643131, dated 19 November 2021, where it directed Alstom to create a new Separable Portion, Portion 23 and to include the scope of Services including but not limited to the preparation of data design and submission of as-built documentation for the ETCS train stops at signal locations 36.5 and 80.8 and provide the Contract Material for new Portion 23 as per the Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000403, ATP-TFNSW-ALS-TX-000390 and ATP-TFNSW-ALS-TX-000391 on 18 November and 21 October 2021; and
- TfNSW's letter ref. 6644468, dated 26 November 2021, where it directed Alstom to amend the Contract Material for Portion 23 to incorporate the modified AEO Design Package (MOD-003) issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000410 on 25 November 2021.

Further to Alstom's letter noted above, pursuant to clause 16.2 of the Agreement, TfNSW re-issues this variation no. 45 with an agreed adjustment to the Fee as detailed below:

Scope of Variation

Alstom to provide the scope of Services for the ETCS Train Stops at signal locations 36.5 (Area 6) and 80.8 (Area 3), including but not limited to:

- Preparation of data design;
- Submission of as-built documentation; and Provision of the Contract Material for Portion 23, (Area 3 & Area 6) ETCS train stops, as per the Signalling Design issued via abovementioned TeamBinder transmittals.

Further, TfNSW summarises in table 1 below the number of balise groups impacted due to this Variation Order:



Table 1

Circuit Book	Impacted BG/IP Count
Area 3 CB121	3
Area 6 CB083	2
Total	5

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$133,513.52 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Converted Database for			
CB064,CB066,CB067 & CB117			
Total Variation Amount		\$133,513.52	

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$133,513.52 (excl. GST) to a total value of \$32,917,318.55 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 23 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Portion 23 -Date for Completion		

Please feel free to contact Mr Matthieu Thomas for any clarification on this subject matter.

6655358 2 of 2



TfNSW requests Alstom's acceptance of this variation no. 45 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.jpseph@transport.nsw.gov.au)

Alia Karaman
Principal's Representative

Dated:

Attachments:

TeamBinder transmittal number ATP-TFNSW-ALS-TX-000403
TeamBinder transmittal number ATP-TFNSW-ALS-TX-000390
TeamBinder transmittal number ATP-TFNSW-ALS-TX-000391
TeamBinder transmittal number ATP-TFNSW-ALS-TX-000410

Variation 45 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:

Name (print):

Position:

6655358 3 of 2



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34

6655358 4 of 2



Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677,64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818. <u>0</u> 2
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
This Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 47 – Portion 18 Area 9 Design Modifications (MOD005)	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Revised Fee	\$32,917,318.55

6655358 5 of 2



ATP Letter Ref: 6643367
Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 46 – Portion 5 Area 6 NIT Defects Modification and Level

Transition Removal

TfNSW makes reference to the following correspondence regarding the subject matter:

- Alstom's above referenced letter, dated 19 November 2021, where it submitted a variation proposal for Network Integration Testing (NIT) defects modification and Level Transition removal in Area 6:
- TfNSW's letter ref. 6607024, dated 27 July 2021, where it issued Variation No. 34 for Alstom to amend the Contract Material for Portion 5 arising from Level Transition removal package issued via TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000310 on 28 May 2021; and
- TfNSW's letter ref. 6623392, dated 14 September 2021, where it directed Alstom to comply with the modified Signalling Design for Portion 5, incorporating speed sign changes at Blacktown issued via TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000380 on 10 September 2021.

TfNSW acknowledges that the afore-noted modified Signalling Package dated 14 September 2021, has resulted in reworks to the Contract Material for Portion 5, including the Level Transition removal package previously submitted by Alstom under letter ref. 0879-AMS-TRK19. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 46 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 5, Area 6, as per modified Signalling Design issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000380.

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$138,922.20 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 1 below for detailed breakdown of the variation amount:

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113.
PO Box K659, Haymarket NSW 1240.
T (02) 9200 0200
ABN: 18 804 239 602



Table 1

Role	Hours	fixie	Amount
Data Preparenti Legerar			
Data Preparation Manager			
Data Validation Engineer		8 8	8 8
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Menupement			
Total Variation A	mount	_	5 138,922.20

Adjustment to the Fee

The firet is adjusted by a tump sum senount of \$105.902.20 secol. 366 to to a total value of \$31,056,161. 15 (god. GST) as ordered in Attachment 4.

Date for Completion:

The impact to the Cale for Completion of Portion Starteing from the variation and the key intersones are detailed in table 2 below.

Table 2

Description	Date
Validared Cata Belivery (N.T. Cerecto)	D-00
Validated Cata Delivery (LT Removal)	
Assurance Fack Bulkery (N.T. Zeloca)	
Assurance Pack Delivery (LT Pernoval)	
Cate for Completion	1 0

T148/W requests Aistories acceptance of this variation no. 40 by signing in the space provided below and returning a signed copy in his entirety to Edgeton Mutombert (Brighton Mutombert).

Yours a nicene s



Alia Karaman : Erincipal's Representative

Dwneck

23/11/2021

Variation 45, is appealed for and on deball of Aleion Transport Australia Pty Ltd.



Attachment A - Revised Fee

Description	Value
Orgina Fcc	829,438,464,90
Colorn - Dana Design Resources for Area 7	\$735,173.20
Variation 1 - Reyorks to Portion 1 Contract Material	\$50,447,44
Variation 2 - Engraduative man-hours Claim (April 18 - June 19)	\$45-1400.00



Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34

6643367 4 of 2



Variation 33 Portion 7 (Area 9.6) Aubum Libcombe LT (CB096)	\$172,031,94
Variation 34 – (Action 5 Area 8 Level I ransacon Removal (West)	\$151,877,84
Variation 36 - Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging 08009	\$108,259,94
Venetion 36 - Porton 12 (Area 9.3) Data Heady Changes Little to Level Transition installation at St Lechard and Track Slaw Works CB005.	\$132,498,47
Variation 37 - Area 8 Portion 7 NIT Modifications	\$212,450,65
Vanishor, Ni – Si Land KAM LAs-built documentation	\$164.1274
Variation 39 Portion 12 Area 9 Modified Signaling Cestion (08008)	574,818,02
Variation 10 - Area 6 Portion 8 (C9002) Signalling Design Chan	\$0.00
Variation 41 – Ayda 8 Portion 10 ATT Modifications	\$228,789.82
Variation 42 - Portion 15 Area S. Redfern (CEC(C) - Level Transition	280,180,70
Sensition 43 - (Aprilon & Area 9 (C.0022) NTI Magnicellana	180,747.74
Variation 44 – Portion 7 Avea 6 Harris Park & Merrylands (MCD-600 & MCD-001)	\$135,918,12
Vanisher for 45 - Autor ES Area 5 & Area 61.1 CG Trien Stops	104
This Variation 46 – Person 5 Area 6 NT Detects Modification and Lovel Transition Removal	\$130,922.20
Rayland Fee	520,656,484,43



CH1 (04 R 4 86247)

Alatom Tremsport Australia (11y Ltd.) 10 G Phote: Avenue. North Byde: NSW 2111

Attendio : pr

Dear I

Automatic Train Protection Program (ATP)
ANS Area 1, 6, 7, 8 and 9 Trackelde Data Design (ISC-17-0509) (Agreement)
Subject: Variation No. 47 – Portion 18 Area 9 – Design Modifications MOG-005

PMSW makes reference to Alstom's letter referenced above, dated 18 November 2021 where it submitted a warfal on proposal for Portion 18. Area 8, in response to TfNSW's letter ref. 6625061, dated 28 September 2021, directing Alstom to comply with modified Signalling Design (MOD 005) issued via TeamBinder transmittal ref. ATP TFNSW ALS TX 000384 dated 28 September 2021.

TfNSW acknowledges that the modified Signalling Design (MCD 006) noted above has caused reworks to the Contract Material for Portion 18 resulting in auditional to the scape of Services. As such, and pursuant to clause 18.2 of the Agreement, TfNSW issues this variation no. 47 to Aistom as detailed below:

Secur of Variation:

Amend the Contract Majerial for Portion 13. Area 3, as per the modified 3 gnalling Design (MCD 035) transmitted via TeamBinder fransmittal ref. ATF TENSW ALS TX 000384 dated 28 September 2021 (copy englosed).

Variation Amount:

Pursuant to clause 16.9 (a) of the Agreement, variation amount assessed at \$508,693.38 (excl. CST) using the houry rates under Schedule 6 of the Agreement, and as amended under TfN8W letter ref. 6689030 dated 12 May 2021.

Please refer to table 1 below for detailed breakdown of the variation amount.

Table 1

Role	Hours	Rate	Amount
Data Preparetion Linguister		1 1	1
Data Preparation Manager	100	8 6 1	
Data Validation Engineer		1 6 0	
Data Valcianos Manega			
System Assurance			
Independent Professional Review		1	
Design Management			
Total Variation /	Vmount		5 508,693,38



Adjustment to the Fee

The first is adjusted by a tump sum amount of \$505,505,58 sect. GG () to a total value of \$30,004,574,54 (excl. GST) as detailed in Atlantiment A.

Date for Completion:

The impact to the Data for Completion of Portion 18 among from the variation and the key renormalization are entertion to 2 below.

Table 7

Description	Date
Validated Cata Helizary	8 8
Assurance Pack Delivery	
Date for Completion	

If NSV requests Alston's acceptance of this vension no. 4.5 by signing to the space provided below and returning a signer copy in its entirety to Brighton Mutomben (Erichton Mutomben) (Erichton Mutomben)

Yours a noerety.

Alia Karam Principal's	an Representative	Dated:	S20 1/5051
-Uzdrer:	Telen Sinder trapeny del number A	VTN-T14074-AUS-T04-000304	
Variation 47	is accepted for and on behalf	of Alstern Transport Australi	a Pty Ltd:
Signature: _			
Norte (print)	94		
Position: 🌉		-	
Date:	2		



Attachment A - Revised Fee

Description	Value
Original Fee	\$20,430,464,00
Option – Date Cosign Resources for Area 7	\$735 123.20
Variation 1 - Reworks to Fortion 1 Contract Material	\$20,747,74
Variation 2 - Engreductive man-froms Claim (April 19 – June 19)	\$504,400,00
Variation 3 Unproductive man hours Claim (July 19 (Oct 2019)	3362,765,00
Variation 4. Americiment to Yard Entry 5. Exit Ballise Groups at Homsby. (Portion 2)	\$64,908,26
Variation 5 – Mission Files Concration for Areas 1, 6, 7, 8 and 9	\$52,242,40
Variation 6 Unproductive man hours Claim (Nov. 2019 Feb. 2020)	3601 040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$500 112 99
Variation 9 - Non-Productive Wan Hours Costs (Mari 20 to May) 20)	3773 011 01
Variation 9 - Revised Scope of Services — Fixed Balise Solution Areas 8, 7,2, and 8	3/36/1/2/00
Variation 10 Reworks to the Contract Material for Portion 11 Katopriba to Mt Victoria	\$60,275.28
Variation 1 Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 9 Epping	\$58.351.60
Variation 12 - Reworks to the Contract Material for Portion 4 - Consord West- to Eastwood – MOC-302	3:03:047.03
Variation 19. Non Productive Marr Hours Costs (June 20 to Aug 20)	3205 081:28
Variation 14 - Yard Entry & Ext Lanser Cavage (CH. nk) Protests to 10 (Assess 856)	\$27,914,04
Variation 15 - Yaro Entry & Ect Bailet Groups (C4. nkt Portion 11 (Arcu 7.2)	36 000,24
Variation 16 - Portions 6 Signalling Design MCDs	\$20,535,67
Varietion 17 - Protein Killete Design of Addisonal Belaic Groups (1917) Loyet Transaco Rempose	\$30,816,84
Variation 18 Portion 2 Homsby (MOC 902) NIT Defects	\$96,530,97
Variation 19 - Non-Nedective Wan-Hours Costs (Sec/ 20 to Cee/ 2020)	\$5.2515.76
Variation 20 - Area S Portion S (Pairfield - Selten Park - Liverpool) Selter Park Speed Sign changes MOD-001	\$54 858 87
Variation 2: Kengy Angy Maintenance Facility (KAMF) Yard Entry and Ext: Ballse Groups Data Design	\$104 501 05
Sarietion 22 - Rod on 2 Revised Signaling Design (MOO-083)	\$507.25.27
Variation 23 Portion 9 Airport Line 3 seed Sign Changes	3106 620.91
Variation 24 – Arca 9 Fixed Ballse Seration	-8138 140.93
Variation 25 Fortion 7 (N/CD-008) Amount 8 greating Design Changes	10.00
Variation 26 - Unproductive Man Hours Claim - Jan 2021 - Mar 2021	3279 626.10
Variation 27 Portion 5 (MOD 002) NIT Detects	3135,160,03
Variation 28 Port on 7 and Portion 8 Fine Road Level Crossing	\$91,090,70
Variation 28 - Portion 11 (Area 9.2) MOD-005	\$534.11.14
Variation 30 = Nortion 15 (Area 9.5) (MOD-001 and OB48); LT changes)	3264 218 04
Variation 31 Portion 17 (Area 9.5) (MOD 002) File rangion and Lideomice	3147 973 30



Revised Fee	\$32,484,074,51
This Variation 47 - Portion 18 Area 8 Design Modifications MOD-005	\$500,093.38
Variation 46 Portion 5 Area 6 N T Delega, Medification and Level Transition Removal	\$138 942 20
Variation No. <5 − Portion 20 Area 3 6 Area 6 ETG9 Train Stops	19/
Variation 44 Portion 7 Area 6 Harris Park & Merrylands (MOD 008 & MOD 011)	\$135,918,12
Verlation 43 + Port on 6 Arch 9 (CBSQL) NTT Medindelions	\$00,747.74
Variation 42 Portion 18 Area 9 Regism (CB202) Leve Transition	\$56,108.70
Variation 41 – Area 8 Propon 10 MT Medited ons	\$208 768 80
Variation (C - Area 0 Portion 9 (C9002) Signalling Design Chan	30.00
Variation 39 Port on 12 Area 9 Mod Fed 9 gnalling Design (CB005)	\$74 019 02
Variation 38 - 3 IT and KAME As built documentation	\$56 112 44
Varietico 37 – Area 6 Portion 7 NFT Modifications	\$212778.63
Variation 36 Portion 12 (Area 9.3) Data Design Changes Due to Level Transition installation of St Leonard and Track Blew Works CB000	\$1.397.8877
Variation 30 — Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108 259 94
Variation 34 Portion C Area 6 Level Transition Removal (West)	3104.677.64
Variation 33 Portion 7 (Area 9.6) August Lideottipe LT (CBC99)	3172 331.94
Variation 32 – Portion C.(Area 6.2) - NET Defects (BOD-CCC, MOD-CCC), MOD-CCC, MOD-CCC)	3911 017 34

25-5572



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2 114 L	diam's	442740

WW.		
Alakomi	346	100

Alston: Transport Australia Pty Lot 16 G Phock Avenue, North Byde: NSW 2113

Alberdo mga

DATE

Automatic Train Protection Program (ATP)

AMS Arrei 1, 8, 7, 8 and 9 Trackerde Data Design (ISD-17-4599) (Agreement) 8abject: Variation No. 48 – Portion 10 Area 8 Leppington Speed Sign. Northborland

TREAM mayor relevance to Alston's letter referenced above, dated 16 November 2001, where it superified a variation proposal for Portion 10, Area 8, in response to TNNA/s letter ref. 8637412, dated 22 October 2021, directing 4 storn to comply with road fed Signaling Design (MDCI-019) assess was reambinder transmitted ref. A IP-17NEWAAUS-CORE

IMSW advancedges that the alors-noted modified Signsing Design dated 32 Colober 2021, has resulted in reworks to the Contract Matchal for Portion 10. As such and pursuant to clause 16.2 of the Agreement, TfK8W issues this variation no. 48 to Alston as detailed below:

Scope of Variation

Arrend the Contract Maredal for Rordon 10, Aren J. as per the modified Signaling Design Ingramited was Telephone Transmitted ref. ATP-TFNEVAUUS-COMM-000650 dated 15 October 2021 toppy (notestal).

Variedon Amount:

Pursuant to clause 15,3 (b) of the Agreement variation amount assessed at \$127,827.02. (excl. -98T) using the houry rates under Schedule 0 of the Agreement, and as amended under TNSW later set 6209020 cated 12 May 202 (

Please refer to table 1 delow for detailed breakdown of the variation amount.

Role	Hours	There	Amount
Data Ereparation Engineer		1 1	
Data Propagation Manager		1 0 0	
Data Valori on Engrave		8 6 6	
Data Validation Manager	5 20	B 00000	
System Assurance			
Independent l'rolese one Hevrew		B 80000	
Dedon Management	. 0.0		1
Total	5-0/M=		3 127,627.02



Adjustment to the Fee

The neers adjusted by a tump sum amount of \$127,617.52 (sect. OST) to a total value of \$82,292,501,68 (expl. 36T) as detailed in Attachment A.

Date for Completion:

the impact to the Date or Completion of Respon 10 arising from the variation and the key milestones are detailed in table 2 below:

Table 2

Description	Date
Validated Data De Ivery	
Assurance Radi Delivery	
Date for Completion	V 35

FNSW requests Asternal acceptance or the variation no. 48 by signing in the space provided telesy and returning a signed copy in its entirety to Brighton Mutambern (Brighton Brighton (Brighton (

Yours allow	e 5.		
Alia Karuma Principal's I	on Representative	Dated	23/1/2021
distant.	h mesita hasar kilomas A	H HAMMAN CORN SERVI	
Variation 45	a accepted to and on behalf of	Aleion Transport Australia Fi	ty Ltet
Symbol.			
Name (print)		Ě	
Position: _		<u></u>	
Corac E	126		



Attendament A - Revised Fee

Description	Value
Original Lea	\$23,428,704,90
Option Data Design Resources for Area 7	3735:120.20
Variation 1 - Revolts to Portion 1 Contract Material	\$60 447.44
Variation 2. Unproductive man hours Claim (April 19. June 19)	3004 400.00
Variation D. Unproductive main inputs Claim (July 19 LOct 2019)	3362,765.00
Variation 4. Amendment to Yard Entry 5. Exit Ballise Groups at Homsby (Portion 2)	\$64,566.00
Variation 5 – Miss on Tiles Generation for Areas, 1, 6, 7, 5 and 9	\$52,242.10
Variation 6: Unproductive man hours Claim (Nov. 2019 Feb. 2020)	3601.040.00
Variation 7 - Reworks to the Contract Material for Persons 1 to 4	3608,112,95
Variation 8 - Nor-Electricity, Marie Toura Costs (Mar 20 to May 20)	\$7/3.811.84
Variation 9 - Revised Scope of Services — Fixed Balise Solution Areas 6, 7.2 and 8	\$126112.60
Variation 10. Reworks to the Contract Material for Portion 11 Katopribe to MtV cloria	\$92.275.28
Variation 1 — Amendment to Yard Entry and Ext. Balise Groups Area 1 Portion 3 – Epping	\$53,351,57
Varietion 12 - Reworks to the Contract Malena, for Portion 4 -Concerc West to Lealercast – 9000-903	\$103,947.03
Variation 13 Non Productive Man Hours Costs (June 20 to Aug 20)	3205 081.28
Venetach 14 - Yero Linky & Likil Larges Carcupa (CH. nk) Profess to 10 (Ances: 886)	\$27,011.04
Variation 15 - Yard Entry & Ext Barisc Groups (C-Link) Person 11 (Area 7.2)	58 305 24
Variation 16 Portions 6 Signalling Design MCDs	\$20 575.67
Verteilleri 17 - Person Kittlete Design of Addisonal Belian Groups (1911) Level - remation Remove	\$20,015,04
Variation 18 Portion 2 Homsey (MOC 902) NIT Defects	\$96,933,97
Variation 19 - Nord Noductive Man-Hours Costs (Sept 20 to Dec 2000)	\$5,251576
Variation 20 Area 9 Portion 9 (Pairfield Befort Park Liverpool) Sefton Park Speed 9 ign changes MOD 001	\$54,858,87
Variation 2: — Kangy Angy Maintenance Facility (KAMF) Yard Entry and Extr Ballise Groups Data Cestion	\$104 501 05
Variation 22 — Notion 2 hex yest & greating Design (MOD-003)	\$50.438.27
Variation 20 – Rod on S.A good Fine Speed Sign Changes	\$256,626.81
Variadon 24 - Area 9 Fixed Ballise Solution	3/30/140/59
Variation 25 Fortion 74MOD 0031 August 8 gnalling Design Changes	80.00
Variation 26 - Unproductive Man Hours Claim - Jan 2021 - Mar 2021	3279 626 10
Variation 27 Portion 5 (MOD 002) NIT Defects	3125 160 02
Variation 20 – Rod on 7 and Rod on 6 – Bine Boad Level Crossing	\$94,096,00
Venelach 29 – Potton 14 (Ansa 9.7) MCD4108	\$55 114 44
Variation 30 Portion 15 (Area 9.5) (MOD 001 and 0849; LT changes)	3254 210.04



Variation 31 - Portion 17 (Area 9.5) (MOD-002) Flemington and Liticombe.	\$147,870,00
Variation 02 → Portion € (Area 6.2) → NIT Defects (MOD 002, MOD 003, MOD 004)	\$301.807.34
Seriebon X3 – Anthon 7 (Area S.6) - August-Liptombe I. I. (C.1085)	\$172,331,94
Variation 34 – Port on 5 Area 6 Lever Transition Removel (West)	3151 677.64
Variation 35 – Port on 2 (Area 1) Data Design Changes Due to Level Transition Removal and Marging CS005	3100 239.94
Variation 36 – Port on 12 (Area 5.5) Data Cosign Changes Bue to Level Transforminatellation at 88 Legisled and Track Stew Works CBRCS	313249047
Variation 37 – Arca 8 Person 7 NF Modifications	\$212,489,88
Varietion 38 – Sitt and KAMI. As-built documentation	\$28 1 12 44
Variation 39 = Port on 12 Area 5 Modified 8 gnalling Design (08008)	\$74.818.02
Variation 40 Area 8 Portion 9 (CB092) Bignalling Design Chan	80.00
Variation 41 Area 8 Portion 10 NIT Modifications	3220 730.02
Variation 42 - Portion 18 Area 9 RedCon (CB202) - Level Transition	\$58 158.70
Variation 43 – Portion & Area 8 (CID22) MJ Micritications	\$00.747.74
Variation 44 – Nother 7 Area 6 Henris Park & Menylands (MOD-008 & MCD-011)	\$135,910,12
Variation No. 43 Fortion 23 Area 3 & Area 6 ETC3 Train Stops	TBA
Variation 46 — Yorgen S Area 6 N T Delega Mochication and Lavet i renamen. Removal	\$1.98 972 20
Variation 17 – Portion 3 Area 6 N T Defects Modification and Level Transition Removal	9908 693 38
This Variation 45 – Portion 40 Area 5 Leppington Speed Sign Notifications	\$197,697.09
Revised Fee	\$32,292,504.53



ATP 1 134 B 1 4623464 (4000) 100

Alatem Tremsport Australia (11) Ltd. 10 G Phock Avenue. North Byde: NSW 2111

Attendo : p

Description 1

Automatic Train Protection Program (ATP)

ANS Area 1, 0, T. II and 9 Trackelds Data Design (SD-17-0509) (Agreement)

Subject: Vanution No. 45 – Pertion 17 Area 9 – Plennington & Endcombe Design Modifications NOD 106

PMSW makes reference to the following correspondence regarding the subject marten.

- Alstonik letter referenced above, dated 22 kovernher 3021, where trisubmitted a variation proposal for Flemington and Lidoomice modified Signaling Ceasign (MCD-008) in Avea 9.
- InNoVvis latter ret. 66 (5665), defed 17. August 2021, directing Alexandro comply with the modified Design Package (0000 0111) issued under TeamBinder Garranitath of ATP-TTNSW-61 S-TK-000063 dated 17. August 2021, and
- TMSW's letter ref. 60: 1210, dated 25 July 2021, directing Alstom to comply with the modified Geolge Package (MOG-006) busined under TeamBinder transmittainet. ATPs 1-NSW-AUS: IX-00035 riduled 27 July 2021.

Further to above. This/w asknowledges that the afore-noted notified Design Package (MDD-00%) has resulted in revorks to the Contract Material for Portion 17. As such, and pursuant to disast 15.2 of the Agreement. This/Charuss this variation no. 40 to Absorrace detailed below. Furthermore: This/W notes that the modified Design Package (MDD-011) has no impact on the Contract Material for Portion 17.

Scope of Variation:

Amend the Contract Material for Portion 17, Area 9, as per the modified Casign Package (MOD 005) transmitted via "fourth inder transmittal not. ATP TENSAY ALS TX 000357 dated 27 July 2021 (convenciosed).

Variation Amount:

Europard to date 15.3 (b) of the Agreement partiation amount assessed at 3116,275.21 (expl. GST) using the hoursy types under Schedule 6 of the Agreement and as amendatunder TNSW letternet 6588030 dated 12 May 2021.

Elease refer to table if below for detailed breaks own of the wat all on amount.

Table 1

Role	Hours.	Rate	Amount
Date Properation Engineer			
Data Preparation Manager	8 1		
Data Validado : Engine di			200
Data Validasen Managen			



Total Variation Amount			\$118,270.04
Design Kanagemen.		-	U demonstrate
Dystem Assurance Independent Professional Review		4-	

Adjustment to the Fee

The Fee is adjusted by a furth sum amount of \$112,270 fet (excl. GST) to a total value of \$32,405,750 S7 resol. CST) as dealed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Fortion 17 arising from this variation and the key milestones are detailed in table 2 below:

Tuble 2

Description	Dana
Validated Data De Ivery	
Assurance Pack De kery	
Oate for Completion	N S

This is requests Alstonia acceptance of this variation on 18 by signing in the space provided below and returning a signed copy in rationtry to Engineer Mutombers (Brighton Mutombers (Br

Урыны в пове	w >.		
Alla Karama Principal's	en Representative	Detect	24/19/2021
Godenni.	te name de la moir del carros A	P. HMANA 23 14 000301	
Variation 48 Signature: 4		A ston Transport Australia I	Fty I frif
hiserus sprinti		2	
Position:		E.	
Corte: Security			



Arrechment 6 Revised Fee

Ottobal Fee	Value 520 100 / 61 30
Option - Data Design Resources for Area 7	5795.123.21
Verterion 1 - Remorks to Port on 1 Compact Material	580,447,44
Variation 2 - Unproductive manifocurs Claim (April 18 - June 10)	3504,400,00
Verteach 3 - Unproductive men-hours. Claim (1sty 19 - Claf 2019)	5362,765.01
Variation 4 - Amendment to Varia Printy & Exh Balke Groups at	12000,400,01
Humaby () forech 2)	304,095,26
Variation 3 - Mission Dies Generation for Areas 1, 5, 7, 6 and 9.	\$57,240.40
Variation 5 - Unproductive manifectrs Stalin (NoV 2018 - Feb. 2020)	366 .010.00
Variable 7 - Mexicits to the Contract Material for Portions 1 to 4	3508,1122.0
Variation 8 - Non-Productive Man Hours Costs (Man 20 to May 20:	3779,811,84
Vertetion 3 - Revised Scope of Services - Fibed Saline Solution Areas 8, 7,2 and 6	3106,112.50
Vertexion 10 - Revorks to the Commed Material for Portion 11 Kathombe to Mi Victoria	\$81,771.70
Variation 11 Amendment to Yard Entry and Edit Balisc Groups Area 1 Faction 3 – Deplins	563,353.53
Variation 12.: Reworks to the Contract Vaterial for Portion 4Ochoord West to Demissed – MCD-003	5103.947.03
Variation 13 - Non-Productive Man-Hours Coals (Lune 190 to Aug 100)	\$205,001.00
Vertebon 14 - Yand Emiry & Bolf (Seles Groups, (C-4ahk) Portebna 5-10 (Vocas 988)	\$27,014.0
Verteich 15 / Yard Emity & Edit Sales Groups (O-Link) i Yarbon 11. (Area 7.2)	\$5,000.26
Variation, 18 - Portions 6 Signaling Date on MDCs	\$20,535.53
Variation 17 - Portion & Data Design of Adolhonal Balise Groups UB 117 Loyel Transition Memoral	\$30,016,5
Variation 18 - Nation 2 Homaby (MOD-002) All College	996 943.0
Variation 19 - Non-Praductive Mani-Tours Chels (Sept. 30 to Dect. 2000)	3902,915,76
Variation 20 - Area 6 Portion 6 (Califield- Section Faction Interpool). Eattor: Park Speed Signichanges, WCD-801	\$84,835,83
Vertetion 2.1 – Kengy Angy Maintenance Facility (-CAMF) Yard Entry and Exat Balac Groups Data Design	3161,631,01
Warteson 12 - Portion 2 Heysaid Signaling Day on (NOU-005)	\$80,433.13
Variation 25 - Person 5 Arport Cine Speed Sign Changes	5106,625,01
Variation 34 – Area S Tissed Fig. as Sphrion	4513074033
Variation 25. Person 7 (WOD 003) Admin Bigns ling Design Changes	\$5000
Variation 20 Unproductive Man Hours Claim - Jan 2021 - Mar 2021	\$279,020,10
Vertican 17 - Parion 5 (MCC-002) N.T Defects	\$135,163,63
Vertication 35 - Portion 7 and Portion 6 - Pine Road Level Grossing	\$81,005.70
Variation 28 - Portion 4/ (Area 9.2) MOD-003	\$60,111.4
Vereson 30 = Porson 15 (Area 5.5) (MCD-801 and CB481 L) ohanges)	5264,2 (5.0)
Variation 31 - Perdon 17 (Area 9.6) (MOD 002) Flemington and Udgambe	2147,972.33
Variation 32 – Rodion 6 (Area 6.2) - N.T. Defects (MOD-002, MOD- 003, MOD-004)	5511/817.34



Variation 38 - Portion 7 (Area 9.0) - A. burn Lidoombo LT (CE005)	8172,381,51
Variation 11 - Portion 5 Agen 61 evel Transition Removal (West)	345 (677.04
Verteton 25 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Morging CB003	3103,258,91
Variation 15 – Portion 12 (Area P.1) Data Design Changes Due to Level transition tracal atomic. St Lechard and Track Stew Works CB005 Variation 17 – Area C Portion 2 NIT Modifications	5132,A25.47 521,1439.00
Apply to the property of the p	
Variation 38 – 8:T and KAME As built obcurrentation Variation 38 – Portion 12 Area 9 Modified Signal ing Design (CR001)	\$99,112,44 \$74,010.02
Variation 49 – Area S Portion S (09032) Signalling Design Oran	50.00
Warterlandt – Awa 3 Partian 10 KIT Madiffordians	1229,793,32
Variation 42 - Porton 18 Area 5 Hadren (CB202) - Dave Transition	\$68,155,70
Variation 48 Person 8 Area 3 (09022) MT Medifications Variation 44 Person 7 Area 6 Harris Park 8 Meny ands ()/00 008 8 MOD-010	\$80,747,74 6136,915,12
Variation 45 - Portion 23 Area 3 & Area 6 FTCS Train Stope.	TEA
Variation 48 – Portion 5 Area 6 NIT Delects ModRication and Level Transition Removal	3188,822.20
Variation 47 Person 5 Area 6 NIT Delects Modification and Development Berneval	5801,663.36
Variation 46 - Portion 40 Area 5 Leppington Speed 5 pp Modifications	1127,677.02
This Vanishon (N = Purbon 17 Area 9 = Flemington & Lidcombe Design Modifications MOD-006	5116,278.84
Revised Fee	\$32,400,700.37



4.19 1.45 - N.4. 4623 - 7 (4640) - 50

Alstern Transport Australia Pty Ltd. 10 G Phock Avenue. North Badw. 856/21117

Attendo :

Date:

Automatio Train Protection Program (ATP)

ANS Area 1. 0, T. J. and 9 Trackelde Data Design (SD-17-9300) (Agreement)

Subject: Variation No. 55 – Pertion 15 Area 9 – Newtown to Surwood Dayign Modifications NOD 007a & NOD018

Philippy makes reference to the following correspondence regarding the sub eclimation:

- Alstholic letter referenced phase, dated 32 November 3021, where it is brotted a variation proposal for amending the Contract Material for Portion 15 (Newtown to Buryood) due to modified Signaling Design (WCC-007e and MOD-413);
- T148Wis Littler ref. 0811214, dated 28 July 2021, directing Alatem to compay with modflet Signaling Designs (MODE-013) issued to Team 3 oder (masurital set ATP-11NSW-AUS- X-000298 dated 27 July 2021; and
- BNSWs latter ref. 8807296, dated 5 July 2001, directing Alatem to comply with modifier Signalling Besign MOD 0076 issued via TeamSinder transmittal ref. ATP TENSW-ALS-TX-000346 dated 8 July 2021

RNoVV actions edges that the store holed incented Eigening Deagns (WCD-007s and MCD-013) have resulted in revolves to the Contract Material for Port on 16. As such, and pursuant to clause 13.7 of the Agreement, FINSW bouse this variation no 30 to Alston as detailed below.

Scape of Variations

Amend the Contract Material for Portion 15, Area 9, as per the modified Signalling Besign (MOD0-007a) transmitted via TeamBitteer transmittal ref. ATP-TENSW-ALS-TX-000345 dated 8 July 2001 and modified Signalling Design (MOD-015) issued under Teambinder harrantial ATP-TENSW-ALS-TX-000365 (organized endeads).

Venetion Amount:

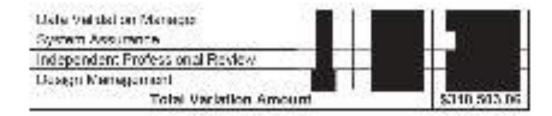
Pursuant to clause: E.3 (b) of the Agreement, variation amount assessed at \$210,002.05 (excl. GST) using the hoursy taxes under Schedule 6 of the Agreement, and as arrended under HNSW letternet 6558020 cated 12 May 1001.

Flease refer to table it below for detailed breakfown of the variation arcount.

Tuble 1

Rolei	Hours	Bale	Amount
Dala Preparation Engineer			Sittle III
Data Preparation Manager			
Uste Vehilation Lingmoor	(9)	- 6	





Adjustment to the Fee.

The red is adjusted by a time sumameurit of \$310,503.08 (sect. OS 11 to a total value of \$82.715.288.48 (exc). OST; as detailed in Attachment A.

Date for Completion:

The impact to the Cale for Combillion of Fortion 15 adding from this variation and the key intercensure detailed in table 2 below.

Table 2

Description	Duxe
Validated Data Delivery	
Assurance Pack De Ivery	- 4
Date for Completion	

T148/V reguests Asterns acceptance of this variation not 50 by signing in the space provided delays and returning a signed copy in the entirety to Eriginan Mutamben (Brighton (Brighton Brighton (Brighton (Bri

Votes sincerely,



Alia Karaman Principalis Representative

Detect:

247:15:021

Azdrer:

TeamBirder barant del number ATINT NOM-AUS-TX-000046. TeamBirder (valor del number ATINT PNCM-AUS-TX-00008).

variation 2D is appended to land on behalf of Aistoin Transport Australia Fty Ltd.



Arrachment A - Revised Fee

Description	Value
Criginal Fee	\$27,450,464.00
Option Data Design Resources for Area 7 Variation 1 - Revortes to Fortion 1 Contract Material	\$735,123,25 \$80,447,44
Variation 1 - Revoluci to 1 di son 1 Contract Material Variation 2 - Engosefedove maniference Claim (April 19 – June 19)	50,2190,311,50
Variation 5 - Engineering man-hours Claim (Asia 15 - Bor 2015)	\$504,400000
Variation 1 - Amendment to Yard Entry & Exit Plaine Groups at Homsby (Portion 2)	884,598.25
Variation 5 Mission Files Generation for Areas 4, 6, 7, 9 and 9	852,242,40
Variation 6 Engroductive man hours Claim (Nov. 2019 Feb. 2020;	\$651,040,00
Variation 7 Reworks to the Contract Material for Portions 1 to 4 Variation 8 - Non-Productive Many-tours Costs (Mari 25 to May 25)	\$009,112,99 \$779,811,84
Variation 9 - Revised Scope of Services – Fixed Balaic Solution Areas 6, 7.3 and 5	\$156,(12,63
Variation 10. Reviews to the Contract Material for Portion 11. Kateombe to Nt. Victoria.	392,273.25
Variation 1 Amendment to Yord Entry and Ext. Ballse Groups Area 1 Fortion 3 Epping	SNOW 57
Variation 12 - Rowerks to the Conflect Material for Portion 4 - Concord West to Eastwood - MOE-003	\$100,947.03
Variation 13 - Non-Productive Man-Hours Costs (June, 28 to Aug. 20)	\$205,051,25
Variation 14. Yard Entry 6 Exit Ballso Groups (3 Link) Portions 9. 10 (Areas 688)	527,311.01
Variation 15 Yard Entry 5 Ex I Bailse Groups (C. Link) Portion 1 1 (Area 7.2)	\$6,306.24
Varietism 16 - Pomone 6 Stonelling Coacon MODa	328,535.87
Variation 17 Portion 6 Data Design of Additional Balise Groups OB117 Level Transition Removal	500,00630
Varietion (it - Portion 2 Homstoy (MD 1402) N.T. Cetects	596,53387
Variation 19 - Non-Productive Man-Hours Costs (Sept 20 to Oper 2020)	\$592,515.75
Variation 20 Area S Portion S (Pairfield Seften Park: Liverpool): Seften Park Speed Sign changes MOD 001	354,750.02
Variation 2: Kangy Angy Maintenance Fatility (KAMF) Yard Entry and Ext. Ballise Groups Data Sesign	\$189,581.08
Variation 22 Portion 2 Revised Signalling Design (MOD 003)	850,433,27
Variation 23 – Potton S Arport Line Speed Sign Changes	\$100,028.81
Variation 24. Area 9 Fixed Balise Solution	\$100,040,99
Varietion 25 –Portsch 7 (MCDHOS) Auberit Signet ind Design Chemicies	30,00
Variation 26 - Unproductive Man Hours Claim - Jan 2021 - Mar 2021	\$279,026,10
Variation 27 Portion 5 (MOD 002: NIT Defects	\$100,160,03
Saration 20 – Port on 7, and Portion 5 – Pine Road Level Crossing	781,780,70
Vacation 28 – Portion 11 (Area 9.2) MOD-003	553,144,48

20-0872



Variation 30 – Portion 15 (Area ≥ 5) (MCD-004 and CRM5) T. changes)	\$264,218,04
Verlation S1 = Portion 17 (Area 5 %) (MODAIC2) Hermoglomand Licksoniae	\$107,873,30
Variation 32 = Portion 6 (Area 8.2) - NIT Delects (MCD4000, MCD4 903, MDD-904)	\$210,017.04
Variation XI ← Portion 7 (Area S.C) - August-Lichtombe I. 1 (CTCSb)	\$100,000.84
Variation 34 – Rod on 5 Area 6 Level Transition Removal (West)	\$150,027.64
Variation 36 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,250.94
Variation 36 - Portion 12 (Ared 9.3) Data Design Changes Due to Level Transition Installation at 3t Leonard and Track Slow Works CB008	\$132,490,47
Variation 37 Area 6 Portion 7 NIT Modifications	\$212,459,65
Variation 38 = 8 IT and KAME As-built documentation	888,112,44
Variation 39 = Port on 12 Ages 5 Modified 8 gnalling Design (08008)	274,818.07
Ver electr 40 — Area & Porson 9 (CR082) Signature Decept Chan	\$1000
Variation 41 — Area & Portion 10 MT Modifications	\$120,750.02
Variation 42 — Notion 18 Area o Resident (CdUR2) - Level Transation	358,158.70
Variation 49 - Portion 8 Area 9 (CB022) NIT Modifications	880,747,74
Variation 14. – Pod on 7 Area 6 Harris Park & Metrylands (MOD-000) & MOD-011)	\$196,918.12
Martation No. 45 Portion 23 Area 3 5 Area 6 ETCS Train Blops	TEA
Variation 46 — Porson 5 Area 6 N T Delegas Mechication and cover Transition Removal	\$188,022,20
Variation 17 – Portiot J. Area 6 hl T. Defects, Modification and Level Transfort Namewal	\$0,000,690,00
Variation 40 Portion 15 Area 8 coppington Speed Sign Medifications	\$127,627,02
Valiation 49 — Yersen 10 Area & Lappington Speed Sign Medicasions	\$116,278,84
This Variation 50 – Portion 15 Area 9 – Newman to Burwood Design Modifications MOD-80/s & MOD843	\$310,503.06
Raylsod Fee	502,719,280,43

20-0872



A1911-15-1911-4882770 A8000-900

Alstern Transport Australia Pty Ltd. 10 Orfhogs Avenue. North Badw. 856/21117

Attendo :

Dear .

Automatic Train Protection Program (ATP)
ANS Area 1. 6, 7. 8 and 9 Trackelde Data Design (ISD-17-9566) (Agreement)
Subject: Variation No. 51 – Pertion 22 KAMP NIT Modifications MOD-603)

Tringly makes reference to Alstom's above referenced letter, dated 18 November 2021, where it submitted a variation proposal for Network Integration Testing (NIT) modifications (MCD 000) for Kangy Argy Maintenance Facility (KAMF). In response to Tringly is letter ref. 6619866, dated 3 September 2021, directing Alstom to comply with the modified Signaling Design (MCD 000) issued via Tealing Inder transmittal ref. ATP-TRINGLY ALS TX 000078 on 1 September 2021.

TINEW addressledges that the afore-nace medified Signating Peckage has resulted in reverted to the Contract Marenal for Portion 27. As such, and current to discuss 16.0 of the Apparatum, TNRW issues the variation no. 51 to Alaton as detailed be try.

Scope of Variation

Amend the Contract Material for Person 22, KAMF, as per medited Signating Design issued via TeamBinder transmittal of ATP-TFN8W-ALS-TX-000378 (appy enclosed).

Variation Amount

Pursuant to clouse 16.2 (b) of the Agreement, variation amount assessed at \$64.02(.60 rexd). GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TN SW letter ref. 6589030 dated 12 May 2021.

Please refer to table if below for detailed breakdown of the variation amount:

Table 1

Role	Hours	Hube	Amount
Data Preparetion Lingineer.			
Data Preparation Manager		- 20	888 I
Date Validation Engineer			
Data Validation Manager			-
System Assurance			12
Independent Professional Review		-	
Design Management		9	
Tutal Vanation Am	uunt.		384,524.80



Adjustment to the Fee

The Fee is adjusted by a timp sum emount of S64,821.60 jevol. GST) to a fore value of \$32,913 Mth OS text. GST) as detailed in Affectment A

Date for Completion:

The impact to the Date for Completion of Portion 22 arrang from this varieties and the Veyna examps are obtained in table 2 below.

Tatile 2

Description	Date
Velleated Cata Delivery	
Assumence Freck Usebsory	
Date for Completion	

TfNEW reduests Alstom's acceptance of this variation no. 31 by signing in the space provided below and returning a signed copy in its entirety to Brighton Mutamben (Erichton Alutomben) Stransport rewidence.

Yours a neededy.

Dwine.





Amachment A - Raidaed Fee

Description	Value
Original Fee	\$23,438,404.80
Option – Data Design Resources for Area 7	3738 123.20
Variation 1 - Records to Portion 1 Contract Material	200 5/7 44
Variation 2 - Unproductive manchours Claim (April 18 - June 18)	\$504,400.00
Variation 3 - Unbroductive man-hours Claim (July 10 - Oct 2019)	\$362,765.00
Vertrach 4 - Amendment to Yard Entry 5 East Baixe Croups at Homeby (Fortion 2)	37-1595.33
Variation 5 – Mission Files Generalize for Areas 1, 5, 7, 6 and 9	252 242 40
Variation 5 - Undraduotive man-fidure Claim (Nov. 2018 - Fed. 2020).	\$551,040.00
Variation 7 - Reworks to line Control Material for Portions 1 to 4	5700.1.2.89
Variation 5 - Non-Productive Man-Hours Costs (Mar/ 20 to Mary 20)	\$773,611.84
Variation 9 - Revised Scope of Services – Elized Figlise Schiffor Areas 6 7.2 and 8	8150.1:2.00
Vereign 10 - Mexiceks to the Contract Material for Portion 11 Katoomba to - Ni Victoria	190,273,111
Variation 11 - Americanonit to Yard Entry and Est. Balisc Croops Area 1 Portion 3 - Eppling	\$50,061.53
Variable 112 Hervorks to the Consuct Material for Portion 4. Concord West to Eastwood – MCD-003	\$100 P47 03
Variation 13 Non-Productive Man Hours Costs (Jane 20 to Aug 25)	9206.081.28
Vertebon, 14 - Yard Embry & Bolf Dariss Groupe (CHU18) Portebra 5-10 : (Acuss 68.6)	527 364 04
Valesch, 15 - Hard Erray & Exit Balse Groups (C-Ent) (Portion 11 (Year 7.2)	\$6,001.24
Variation 16 - Portions 6 Signaling Design MOOs	\$28,587,67
Verteign 17 - Portion & Data Design of Adolfrens i define Croups CB117 Love Transition Fernova	550,616,64
Variation 16 : Portion 2 Homsby (MOD 002) NIT Defects	\$60,689,07
Variation 19 - Non-Productive Man-Tours Coals (Sep. 20 to Dec. 2000)	\$550,515.75
Variation 30 - Area d Portion (InCalifielo: Serion Park - Liverpool) Serion Frank Societi Sign changes MOU 301	36: 863.87
Vertabon 21 – Kangy Angy Maintenance habits (KAWh) Yard brits and Exit Barise Groups Data Dusign	\$17-150 100
Variation 22 – Portion 2 Haveaud Signatury Dealer (MDC-003) Variation 23 – Portion P Airport Line Speed Sign Changes	550 435.27 \$100,029.91
Variabon 24 - Area di Hode Balise Boltisen	\$138,140.50
Variation 25 - Entiren 7 (NOO-10%) 4, hum Signaling Design Changes	\$101
Variation 25 - Unward up the Man-Hours Claim - Jan 2021 - Mar 2021	5279 670 0
Variation 27 - Person 5 (MCC-502) N 1 Deneda	\$155 163.43
Variation 20 – Portion 7 and Portion 0 – Pine Road Level Crossing	591 591 70
Variation 29 - Portion (1) (Area 9.2) MCE-00.7	550.114.44
Variation 3D — Portion 15 (Atex 9.0) (MCCC-00), and CB16(-) Ticktanges)	52% 2 3 0d
Vanauch 31— Person 17 (Area c.e.) (MCC-802) Florington and Lessenber	\$147.973.90
Vertesch 32 – Porton 5 (Area 6.2) - NT Detecta (MOJ-002, MOD-003, MOJ-004)	9311 6:7.84



Foregood Fee	\$19,783,605,01
This Variation 91 – Portion 22 KAMF KIT Modifications Design (NOD- 003)	581,521,00
Variation 30 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD4007e SIMCE013	9310,503,05
Variation 49 – Portion, ID Area & Leppington Speed Sign Modifications.	\$116,273.04
Variation 46 – Portion 10 Area 5 Leppington Speed Sign Modifications	\$127,827.02
Variation 17 – Rotton 5 Area 6 NiT Defects Modification and Level Transition Removal	\$5160 MAN 35
Vertision 45 – Portion 5 Area 6 NIT Defects Modification and Lave. Transition Removal	\$00,000.00
Variation No. 45 – Fortion 23 Area 5 & Area 6 ETCS Trein Stops	TEA
Variation 44 – Portion 7 Area & Harris, Park & Merry ands (NOIS-00) & MIDD-011)	9199.918,12
Variaden 42 - Perion 18 Arca 6 Rediem (CB202) - Leve Transition Variaden 13 - Perion 8 Area 9 (CB022) NIT Medifications	858 198.70 860 747 71
Variation 41 – 41ea 3 Portion ID NIT Modifications	5720 703 07
Variation 40 – Aven & Portion 9 (09032) Signa line Ceolog Oran	\$0.07
Variation 38 – Portion 12 Area 8 Modified Signal ing Design (CE003)	574,618,02
Vereison 35 – Sill and KAMh As-built occurrenceson	198 112 44
Variation 37 Arca & Portion 7 NIT Modifications	9212 489.68
Variation 36 Perion 12 (Area 5.3) Date Design Changes Duc to Level Transition Installation of Still sepand and Track Siew Veorks CDCCD	\$152,496,47
Vertation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Marging CBDIX	\$100,209,91
Vertation 34 – Porson 5 Area 6 Level Transition Removal (View)	\$151,877,84
Variation 38 - Portion 7 (Area 9.0) - Aubum Lidoombe LT (CB906):	\$172,881,91

25-3710



ATP Letter Ref: 6646227 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 52 - Portion 10 Area 8 - CB137 Modification and Portion

9 Area 8 Level Transition Removals - Amount Determination

TfNSW makes reference to Alstom's letter referenced above, dated 6 December 2021, where Alstom submitted a variation proposal for Portion 9 and Portion 10 in Area 8, in response to:

- TfNSW's letter ref. 6636839 dated 22 October 2021, where it directed Alstom to to comply with the modified Signalling Design for Virtual Balise Cover and Level Transition removal at Canley Vale and amend the Contract Material for Portion 9 (Area 8); and
- TfNSW's letter ref. 6644026 dated 26 November 2021, where it issued variation order 52 to Alstom to amend the Contract Material for Portion 10, circuit book CB137.

Further to Alstom's letter above, TfNSW advises that it has assessed the variation proposal and pursuant to clause 16.2 of the Agreement, re-issues variation no. 52 with an agreed adjustment to the Fee as detailed below:

Scope of Variation

Alstom to:

- Amend the Contract Material for Portion 9, Area 8, as per modified Signalling Design issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000344 (copy enclosed); and
- Amend the Contract Material for Portion 10, CB137 in order to, resolve the NIT observation report NIT_Area 8.2_0013 issued via TeamBinder letter ref. ATP-TFNSW-ALS-CORR-000670 (copy enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
CB015	1
CB137	2
Total	3

Infrastructure & Place
Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113.
PO Box K659, Haymarket NSW 1240.
T (02) 9200 0200
ABN: 18 804 239 602



Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, the variation amount is assessed at \$74,818.02 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	 Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			7
Data Validation Manager			
System Assurance			7
Independent Professional Review			
Design Management			
Total Variation Ar	mount		\$ 74,818.02

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$74,818.02 (excl. GST) to a total value of \$33,254,572.15 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 9 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date
Validated Data Delivery	
Assurance Pack Delivery	
Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 52 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,



Alia Karaman Principal's Representative

30/03/2022

Dated:

Attachment:

TeamBinder transmittal number ATP-TFNSW-ALS-TX-000344 TeamBinder letter number ATP-TFNSW-ALS-CORR-000670

6645227 2 of 5



Variation 52 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:
Name (print):
Position:
Date:

3 of 5



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 - Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83

6646227 4 of 5



Variation 28 - Portion 7 and Portion 8 - Pine Road Level	\$91,398.70
Crossing Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 - Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 - SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 - Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 - Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 - Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD- 008 & MOD-011)	\$135,918.12
Variation 45 - Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
This Variation 52 – Portion 10 Area – CB137 Modification and Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portion 20 and Portion 21)	\$262,435.58
Revised Fee	\$33,254,572.15

6646227 5 of 5



ATP Letter F	Ref: 6660936
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 53 - Splitting of As-Builts Documentation (Portion 20 and Portion 21)

TfNSW makes reference to Alstom's above referenced letter dated 11 March 2022, where Alstom submitted a variation proposal in response to TfNSW's Variation Proposal Request made under letter ref. 6643844, dated 24 November 2021, to split Portion 20 and Portion 21.

TfNSW advises that it has assessed Alstom's variation proposal noted above and pursuant to clause 6.2 of the Agreement, issues this variation no. 53 to Alstom as detailed below.

Scope of Variation

Alstom to split Portion 20 and Portion 21 in order to submit all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation as per table 1 below.

Further, pursuant to clause 18.9(a) of the Agreement, TfNSW advises that additional sub-Portions Portions 20a, 20b, 20c, 21a, 21b and 21c are created as per table 1 below:

Table 1

Portion	Signalling Design As-Built Input date	Revised Signalling Design As-Built Input date
Portion 20a – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation for Area 6	24 December 2021	07 February 2022
Portion 20b – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built	11 March 2022	11 March 2022



documentation for Area 7.2		
Portion 20c – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation for Area 8	29 April 2022	13 May 2022
Portion 21a – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation for Area 9 North	18 November 2021	18 November 2021
Portion 21b – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation for Area 9 West	13 May 2022	17 June 2022
Portion 21c – submission of all relevant supporting documentation required for submission to CCB Gate 5, including final safety assurance and as-built documentation for Area 9 Central	24 June 2022	15 July 2022

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount is assessed at \$262,435.58 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Tublo E	
Description	Price
Portion 20a (effort included in base scope)	\$0.00
Portion 20b	, ,
Portion 20c	
Portion 21a (effort included in base scope)	\$0.00
Portion 21b	, ,
Portion 21c	,,
Total	\$262,435.58

6660936 2 of 5



Further, please refer to table 3 below for a revised Payment Schedule:

Table 3

Description	Current –	Revised –	Difference
	Lump sum amount	Lump sum amount	
Portion 20			
Portion 20a (Area 6)	\$237,736.90	\$122,984.90	-\$114,752.00
Portion 20b (Area 7.2)	N/A	\$122,984.90	\$122,984.90
Portion 20c (Area 8)	N/A	\$122,984.90	\$122,984.90
Total Portion 20	\$237,736.90	\$368,954.70	\$131,217.80
Portion 21			
Portion 21a (Area 9 North)	\$159,813.03	\$97,010.27	-\$62,802.76
Portion 21b (Area 9 West)	N/A	\$97,010.27	\$97,010.27
Portion 21c (Area 9 Central)	N/A	\$97,010.27	\$97,010.27
Total Portion 21	\$159,813.03	\$291,030.82	\$131,217.80
Total Variation Am	ount for Portion	20 & Portion 21	\$262,435.58

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$262,435.58 (excl. GST) to a total value of \$33,179,754.13 (excl. GST) as detailed in Attachment A.

Date for Completion:

TfNSW advises that the Date for Completion arising from this Variation will be assessed at a later date in conjunction with other variations.

TfNSW requests Alstom's acceptance of this variation no. 53 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Alia Karaman Principal's Representative

Dated:

6660936 3 of 5



Variation 53 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:	
Name (print):	
Position: _	
Date:	

6660936 4 of 5



Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar	\$279,626.10

6660936 5 of 5



Revised Fee	\$33,179,754.13
(Portion 20 and Portion 21) – This Variation	\$262,435.58
Variation 52 – Portion 10 Area – CB137 Modification Variation 53 – Splitting of As-Builts Documentation	
(MOD-003) Variation 52 – Portion 10 Area – CB137 Modification	TBA
Variation 51 – Portion 22 KAMF NIT Modifications Design	\$64,521.60
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.38
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 45 – Portion 23 Areas 3 & 6 ETCS Train Stops	\$133,513.52
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 42 – Portion 18 Area 9 Redfern (CB202) - LT	\$58,158.70
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Changes	\$0.00
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Due to Level Transition Installation at St Leonard and Track	\$132,498.47
Level Transition Removal and Merging CB009 Variation 36 – Portion 12 (Area 9.3) Data Design Changes	
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to	\$108,259.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Crossing	\$91,398.70
Variation 28 – Portion 7 & Portion 8 – Pine Road Level	
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83

6660936 6 of 5



ATP Letter Ref: 6646391 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 54 - Portion 16 Area 9.7 Modified Signaling Design (MOD008)

TfNSW makes reference to Alstom's letter referenced above, dated 6 December 2021, where it submitted a variation proposal for Portion 16, Area 9, in response to TfNSW's letter ref. 6611950 dated 3 August 2021, where it directed Alstom to comply with the modified Signalling Design (MOD-008) for Portion 16, issued via TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000359 on 29 July 2021.

Further to above, TfNSW acknowledges that the MOD-008 has resulted in reworks to the Contract Material for Portion 16. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 54 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 16, Area 9, as per modified Signalling Design issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000359 (copy enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
CB044 Merging A &B	27
CB044 Merging P9	14
CB044 MOD 008	5
Total	46

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$226,049.46 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:



Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total Variation An	nount		\$ 226,049.46

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$226,049.46 (excl. GST) to a total value of \$33,481,397.49 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 16 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

TfNSW requests Alstom's acceptance of this variation no. 54 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Alia Karaman
Principal's Representative
Dated:

Attachment: TeamBinder transmittal number ATP-TFNSW-ALS-TX-000359

Variation 54 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:

Name (print): ______

Position:

Date:



Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10

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Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification and Portion 9 Area 8 LT removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portion 20 and Portion 21)	\$262,435.58
This Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,825.34
Revised Fee	\$33,481,397.49

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ATP Letter Ref: 6648603 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 55 - Portion 13 Area 9 Modified Signaling Design (MOD-

022)

TfNSW makes reference to Alstom's letter referenced above, dated 16 December 2021, where it submitted a variation proposal for Portion 13 in response to TfNSW's letter ref. 6639132 dated 3 November 2021, where it directed Alstom to comply with the modified Signalling Design (MOD-022) combined with NIT Modifications for Portion 13, issued via TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000396 on 1 November 2021.

Further to above, TfNSW acknowledges that MOD-022) has resulted in reworks to the Contract Material for Portion 13. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 55 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 13, Area 9, as per modified Signalling Design issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000396 (copy enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
CB011	11
CB444	1
CBRR3	1
Total	13

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$127,392.62 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:



Table 2

Role	Ноц	ırs	Rate			Amount		
Data Preparation Engineer					П			
Data Preparation Manager								
Data Validation Engineer								
Data Validation Manager								
System Assurance								
Independent Professional Review					П			
Design Management								
Total Variation Amount				,	127	7,392.62	2	

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$127,392.62 (excl. GST) to a total value of \$33,608,789.49 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 16 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

TfNSW requests Alstom's acceptance of this variation no. 55 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,



Alia K	aram	an			
Princi	pal's	Rep	rese	enta	tive

Dated:

Attachment:

TeamBinder transmittal number ATP-TFNSW-ALS-TX-000396

Variation 55 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:

Name (print):

Position:

Date:



Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30

3 of 4



Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 47 – Portion 18 Area 9 Design Modifications (MOD005)	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portion 20 and Portion 21)	\$262,435.58
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,825.34
This Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Revised Fee	\$33,608,789.49

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ATP Letter F	Ref: 6648756
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 56 - Portion 15 Area 9 West Level Transition Removal

Design

TfNSW makes reference to Alstom's letter referenced above, dated 17 December 2021, where Alstom submitted a variation proposal for Portion 15 (Area 9) in response to the following TfNSW correspondence:

- TfNSW's letter ref. 6613119, dated 6 August 2021, which directed Alstom to amend the Contract Material for Portion 15 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000361 on 2 August 2021;
- TfNSW's letter ref. 6615666, dated 17 August 2021, which directed Alstom to amend the Contract Material for Portion 15 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000368 on 13 August 2021; and
- TfNSW's letter ref. 6637070, dated 22 October 2021, which directed Alstom to amend the Contract Material for Portion 15 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000376 on 27 August 2021.

TfNSW acknowledges that the afore-noted modified Signaling Package has resulted in reworks to the Contract Material for Portion 15. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 56 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 15, Area 9, as per modified Signalling Designs issued via afore-mentioned TeamBinder transmittals (copies enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
Area 1 Portion 4 CB019	7
Area 1 Portion 4 CB245	1

Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113.
PO Box K659, Haymarket NSW 1240.
T (02) 9200 0200
ABN: 18 804 239 602



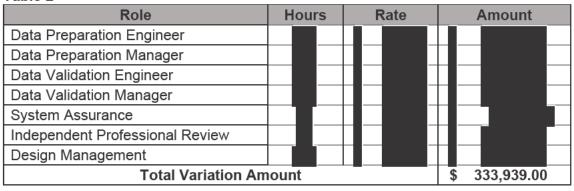
Area 6 Portion 7 CB095	18
Area 8 Portion 8 CB022	8
Area 9 Portion 15 CBASH	3
Area 9 Portion 15 CB481	18
Area 9 Portion 15 CB481	2
Total	57

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$333,939.00 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2



Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$333,939.00 (excl. GST) to a total value of \$33,941,953.23 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 15 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

TfNSW requests Alstom's acceptance of this variation no. 56 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Alia Karaman Principal's Representative

Dated:



Attachment: TeamBinder transmittal number ATP-TFNSW-ALS-TX-000361

TeamBinder transmittal number ATP-TFNSW-ALS-TX-000368 TeamBinder transmittal number ATP-TFNSW-ALS-TX-000376

Variation 56 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signatu	ire:		
Name (print): _		
Positio	า:		
Date:			

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Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30

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Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portions 20 & Portion 21)	\$262,435.58
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
This Variation 56 – Portion 15 Area 9 West Level Transition Removal Design	\$333,939.00
Revised Fee	\$33,941,953.23
	<u> </u>

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ATP Letter Ref: 6648797 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)
Subject: Variation No. 57 - Portion 15 Area 9 Central Level Transition

Removals Design

TfNSW makes reference to Alstom's letter referenced above, dated 17 December 2021, where Alstom submitted a variation proposal for Portion 15 (Area 9) in response to TfNSW's letter ref. 6642136, dated 18 November 2021, which directed Alstom to amend the Contract Material for Portion 15 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000398 on 15 November 2021.

TfNSW acknowledges that the afore-noted modified Signaling Package has resulted in reworks to the Contract Material for Portion 15. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 57 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 15, Area 9, as per modified Signalling Design issued via TeamBinder transmittal ref. ATP-TFNSW-ALS-TX-000398 (copy enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
Area 4 Portion 2 CB010	4
Area 4 Portion 4 CB027	16
Area 8 Portion 9 CB032	13
Area 8 Portion 9 CB475	9
Area 9 Portion 12 CB008	1
Area 9 Portion 12 CB028	7
Area 9 Portion 16 CB044	10
Total	60



Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$341,807.46 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer	4,		
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total Variation A	mount	-	\$ 341,807.46

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$341,807.46 (excl. GST) to a total value of \$34,283,760.69 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 15 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

TfNSW requests Alstom's acceptance of this variation no. 57 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

30/03/2022

Alia Karaman Principal's Representative

Dated:

Attachment: TeamBinder transmittal number ATP-TFNSW-ALS-TX-000398



Variation 57 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:
Name (print):
Position:
Date:

3 of 4



Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 - Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5- 10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 - Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 - Portion 7 and Portion 8 - Pine Road Level Crossing	\$91,398.70
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44

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Revised Fee	\$34,283,760.6
This Variation 57 – Portion 15 Area 9 West Level Transition Removal Design	\$341,807.4
Variation 56 – Portion 15 Area 9 West Level Transition Removal Design	\$333,939.0
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.6
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.4
Variation 53 – Splitting of As-Built Documentation (Portions 20 & 21)	\$262,435.5
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT removals	\$74,818.0
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD- 003)	\$64,521.6
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.0
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.8
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.0
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.3
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.2
008 & MOD-011) Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.5
Variation 44 - Portion 7 Area 6 Harris Park & Merrylands (MOD-	\$135,918.1
Variation 42 – Portion 18 Area 9 Redfern (CB202) - LT Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$58,158.7 \$60,747.7
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.8
Variation 40 - Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.0
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.0
Variation 38 – SIT and KAMF As-built documentation	\$66,112.4
LT Installation at St Leonard and Track Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$132,498.4 \$212,489.6
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009 Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to	\$108,259.9
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.6
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.9
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD- 003, MOD-004)	\$311,817.3
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.3
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.0

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ATP Letter F	Ref: 6652781
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 58 - Portion 11 - Area 7.2 (Katoomba to Mt. Victoria)

Design Modifications due to MOD-005 to MOD-009

TfNSW makes reference to Alstom's above referenced letter dated 11 February 2022, where Alstom submitted a variation proposal for Portion 11 (Area 7.2) in response to:

- TfNSW's letter ref. 6637702, dated 28 October 2021, where it directed Alstom to amend the Contract Material for Portion 11 to incorporate arising from the modified Signalling Design (MOD-005 to MOD-008) issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000393, ATP-TFNSW-ALS-TX-000394 and ATP-TFNSW-ALS-TX-000395 on 25 August 2021;
- TfNSW's letter ref. 6643490, dated 26 November 2021, where it directed Alstom to amend the Contract Material for Portion 11 to incorporate the modified AEO Design Package (MOD-006) issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000405 on 19 November 2021;
- 3. TfNSW's letter ref. 6646627, dated 9 December 2021, where it directed Alstom to amend the Contract Material for Portion 11 to incorporate the modified AEO Design Package (MOD-009) issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000413, ATP-TFNSW-ALS-TX-000414 and ATP-TFNSW-ALS-TX-000415 on 7 December 2021; and
- 4. TfNSW's letter ref. 6647872, dated 16 December 2021, where it directed Alstom to amend the Contract Material for Portion 11 to incorporate the VBC Stage 2 AEO approved Design Package (MOD-009) issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000417 on 13 December 2021.

Further to Alstom's letter noted above, TfNSW acknowledges that the above modified Signaling Design(s) has resulted in reworks to the Contract Material for Portion 11. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 58 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 11, Area 7.2, as per modified Signalling Design issued via above-listed TeamBinder transmittals.



Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation order:

Table 1

Circuit Book	Impacted BG/IP Count
CB123	0
CB124	2
CB125	4
CB126	7
Total	13

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$144,913.94 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review	1,0		
Design Management			
Total Variation A	mount		\$ 144,913.94

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$144,913.94 (excl. GST) to a total value of \$34,428,674.63 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 11 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description	Date
Validated Data Delivery	U-01
Assurance Pack Delivery	
Date for Completion	



TfNSW requests Alstom's acceptance of this variation no. 58 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Alia Karaman Principal's Repre	sentative		Dated:	30/03/2022
Variation 58 is acc	epted for and on behalf	of Alstom Transp	oort Australia Pty	Ltd:
Signature:	_			
Name (print):				
Position: _				
Date: _				

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Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 -Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 - Portion 7 and Portion 8 - Pine Road Level Crossing	\$91,398.70
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 - Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 - Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003,	\$311,817.34

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Revised Fee	\$34,428,674.6
This Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.9
Variation 57 – Portion 15 Area 9 West Level Transition Removal Design	\$341,807.4
Variation 56 – Portion 15 Area 9 West Level Transition Removal Design	\$333,939.0
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.6
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.4
Variation 53 – Splitting of As-Builts Documentation (Portion 20 and Portion 21)	\$262,435.5
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.0
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.6
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.0
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.8
Variation 48 - Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.0
Variation 47 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$508,693.3
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.2
Variation 45 - Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.5
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.1
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.7
Variation 42 - Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.7
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.8
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.0
Variation 39 - Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.0
Variation 38 – SIT and KAMF As-built documentation	\$66,112.4
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.6
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008	\$132,498.4
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.9
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.6
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.9

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ATP Letter Ref: 6657099 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 59 - Merging of Split Circuit Book Data - Circuit Book CB 078 (Area 6) and CB 015 (Area 8)

TfNSW makes reference to Alstom's above referenced letter dated 14 February 2022, where Alstom submitted a variation proposal in response to TfNSW's letter ref. 6653882, dated 7 February 2022, where it directed Alstom to amend the Contract Material of Portion 5 by merging the split circuit book CB078 and Portion 8 by merging the split circuit book CB015.

Further to Alstom's letter noted above, TfNSW acknowledges that the afore-noted changes has resulted in reworks to the Contract Material for Portion 5 and Portion 8. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 59 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 5 in Area 6 and Portion 8 in Area 8, by merging the split circuit books CB078 (Area 6) and CB015 (Area 8) as directed under TfNSW letter referenced above.

TfNSW summarises in table 1 below the number of balise groups impacted due to this Variation Order.

Table 1

Circuit Book	Impacted BG/IP Count
CB078	38
CB015	16
Total	54

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$185,707.08 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.



Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount	
Portion 5 Area 6 CB078	20 20 20			
Data Preparation Engineer				
Data Preparation Manager				
Data Validation Engineer				
Data Validation Manager				
Design Management				
Sub-Total P	ortion 5		\$ 120,431.56	
Role	Hours	Rate	Amount	
Portion 8 Area 8 CB015	20 - 20 AM	(e) (c) (c)	0 Page 25 0	
Data Preparation Engineer				
Data Preparation Manager				
Data Validation Engineer				
Data Validation Manager				
Design Management				
Sub-Total P	ortion 8		\$ 65,275.52	
Total Variatio	n Amount		\$ 185,707.08	

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$185,707.08 (excl. GST) to a total value of \$34,614,381.71 (excl. GST) as detailed in Attachment A.

Date for Completion:

There is no impact to the Date for Completion of Portion 5 (Area 6) and Portion 8 (Area 8) arising from this variation.

Please refer to table 3 below detailing the schedule dates associated with the delivery of this Variation Order:

Table 3

Description/Activity	Date
Merged Area 6 CB078 Validated Data	
Merged Area 8 CB015 Validated Data	

TfNSW requests Alstom's acceptance of this variation no. 59 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Alia Karaman Principal's Representative 30/03/2022

Dated:



Variation 59 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:
Name (print):
Position:
Date:

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Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Revised Scope of Services – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Amendment to Yard Entry and Exit Balise Groups Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit Balise Groups (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit Balise Groups (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional Balise Groups CB117 Level Transition Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 2020)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30

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Revised Fee	\$34,614,381.71
This Variation 59 – Merging of Split Circuit Book Data – Circuit Book CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.46
Variation 56 – Portion 15 Area 9 West Level Transition Removal Design	\$333,939.00
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 49 – Portion 10 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 46 – Portion 5 Area 6 NIT Defects Modification and Level Transition Removal	\$138,922.20
Variation 45 - Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to Level Transition Installation at St Leonard and Track Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$132,498.47 \$212,489.68
Transition Removal and Merging CB009	\$108,259.9
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level	onition discussion.
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095) Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$172,331.94 \$151,677.64
003, MOD-004)	\$311,817.34

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ATP Letter Ref: 6663454 Alstom Ref:

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 60 - Area 9 Portion 15 Design Modifications (MOD-021a

and MOD-029a)

TfNSW makes reference to Alstom's above referenced letter dated 21 March 2022, where Alstom submitted a variation proposal for Portion 15, Area 9, in response to TfNSW's letter ref. 6650017, dated 18 January 2022, where it directed Alstom to comply with the modified Signalling Design (MOD-021a & MOD-029a) for Portion 15, issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000421 on 24 December 2021.

Further to the above, TfNSW acknowledges that the MOD-021a and MOD-029a have resulted in reworks to the Contract Material for Portion 15. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 60 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 15, Area 9, as per modified Signalling Design issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000421 (copy enclosed).

Further, TfNSW summarises in table 1 below the number of balise groups impacted due to this Variation Order:

Table 1

Circuit Book	Impacted BG/IP Count
P15-CBHH	10
P15-CBSTR	4
Total	14

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$131,881.84 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.



Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			27
Total			\$131,881.84

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$131,881.84 (excl. GST) to a total value of \$34,746,263.55 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 15 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date
Validated Data Delivery	
Assurance Pack Delivery	
Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 60 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Date:

Alia Karaman	30/03/2022
Principal's Representative	Dated:
Attachment - TeamBinder transmittal number	er ATP-TFNSW-ALS-TX-000421
Variation 60 is accepted for and on behalf or	f Alstom Transport Australia Pty Ltd:
Signature:	
Name (print):	
Position: _	27) 1



Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit BGs at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Yard Entry and Exit BGs Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit BGs (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 - Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 –Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 - Portion 7 and Portion 8 - Pine Road Level Crossing	\$91,398.70
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30
Variation 32 - Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD- 003, MOD-004)	\$311,817.34

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Revised Fee	\$34,746,263.55
This Variation 60 - Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	\$131,881.84
This Variation 59 – Merging of Split Circuit Book Data – Circuit Book CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 57 - Portion 15 Area 9 Central LT Removal Design	\$341,807.46
Variation 56 – Portion 15 Area 9 West LT Removal Design	\$333,939.00
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 49 – Portion 10 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 46 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$138,922.20
Variation 45 - Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 42 - Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 40 - Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Installation at St Leonard and Track Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 36 - Portion 12 (Area 9.3) Data Design Changes Due to LT	\$132,498.47
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095) Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$172,331.94 \$151,677.64

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ATP Letter F	Ref: 6663455
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)
Subject: Variation No. 61 - Portion 17 Design Modifications - Flemington

(Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-

032, MOD-036 and MOD-037)

TfNSW refers to Alstom's letter noted above dated 21 March 2022, where Alstom submitted a variation proposal for Portion 17, Area 9, in response to the following correspondences:

- TfNSW's letter ref. 6651044, dated 18 January 2022, where it directed Alstom to comply with modified Signalling Design (MOD-037) for Portion 17, issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000424 on 17 January 2022; and
- TfNSW's letter ref. 6652275, dated 27 January 2022, which directed Alstom to amend the Contract Material for Portion 17 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000427 on 27 January 2022.

Further to the above, TfNSW acknowledges that afore-noted modified Signaling Packages has resulted in reworks to the Contract Material for Portion 17. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 61 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 17, Area 9, as per modified Signalling Design issued via following TeamBinder transmittals (copies enclosed):

- a. ATP-TFNSW-ALS-TX-000424, dated 17 January 2022, and
- b. ATP-TFNSW-ALS-TX-000427, dated on 27 January 2022...

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation:

ABN: 18 804 239 602



Table 1

Circuit Book	Impacted BG/IP Count
P17-CBFCS	8
P17-CBFGJ	4
P17-CBLID	8
P17-CBNST	5
Total	25

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$230,619.70 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total	V. 12. 14. 14.		\$230,619.70

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$230,619.70 (excl. GST) to a total value of \$34,976,883.25 (excl. GST) as detailed in Attachment A.

Date for Completion:

The impact to the Date for Completion of Portion 17 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date
Validated Data Delivery	
Assurance Pack Delivery	
Date for Completion	



30/03/2022

Dated:

TfNSW requests Alstom's acceptance of this variation no. 61 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Principal's Representative

Alia Karaman

Attachment - TeamBinder transmittal number ATP-TFNSW-ALS-TX-000424 TeamBinder transmittal number ATP-TFNSW-ALS-TX-000427

Variation 61 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:

Name (print):

Position:

Date: _

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Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 - June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 - Oct 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit Balise Groups at Hornsby (Portion 2)	\$64,596.26
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks to the Contract Material for Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Yard Entry and Exit BGs Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks to the Contract Material for Portion 4 -Concord West to Eastwood – MOD-003	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit BGs (Q-Link) Portions 5-10 (Areas 6&8)	\$27,314.04
Variation 15 - Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 Data Design of Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – Kangy Angy Maintenance Facility (KAMF) Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 - Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 and CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington and Lidcombe	\$147,973.30

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Revised Fee	\$34,976,883.2
This Variation 61 - Area 9 Portion 17 Design Modifications Flemington (Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-032, MOD-036 and MOD-037)	\$230,619.7
Variation 60 - Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	\$131,881.8
This Variation 59 – Merging of Split Circuit Book Data – Circuit Book CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.0
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.9
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.4
Variation 56 – Portion 15 Area 9 West Level Transition Removal Design	\$333,939.0
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.6
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.4
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.5
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area B LT Removals	\$74,818.0
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.6
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.0
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.8
Variation 48 - Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.0
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.3
Variation 46 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$138,922.2
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.5
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.1
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.7
Variation 42 - Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.7
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.8
Variation 40 - Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.0
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.0
Variation 38 – SIT and KAMF As-built documentation	\$66,112.4
Level Transition Installation at St Leonard and Track Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$132,498.4 \$212,489.6
Transition Removal and Merging CB009 Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to	\$100,239.9
Variation 35 - Portion 2 (Area 1) Data Design Changes Due to Level	\$108,259.9
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.6
003, MOD-004) Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$311,817.3 \$172,331.9



ATP Letter Ref: 6664492 Alstom Ref

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1,6,7,8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Extension of Time and Associated Project Management Costs – Portions 11 (Sub-Area 7.2), 13-18 (Area 9) and Portions 20 and 21 (As-Built for Areas 6,7.2, 8 and 9)

TfNSW makes reference to Alstom's letter noted above, dated 25 March 2022, where it submitted a Claim seeking additional amount of \$477,406.50 (excl GST) for preliminaries arising due to extension of time to the Date for Completion of Portion 11 (sub-Area 7.2), Portions 13 to 18 (Area 9) and Portions 20 and 21 (as-builts for Areas 6, 7.2, 8 and 9) resulting from various variations as summarised below:

Portion 11 (sub-Area 7.2)

Variation Number / Description	TfNSW Letter Ref	Date Issued
VO#58 - Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	6652781	

Portions 13-18 (Area 9)

Variation Number / Description	Letter Ref	Date Issued	
VO#29 - Portion 14 Area 9.2 (MOD-003)	6602582		
VO#30 - Portion 15 Area 9.5 (MOD-001 & CB481 Level Transition changes)	6603474		
VO#31 - Portion 17 Area 9.6 (MOD-002) Flemington and Lidcombe	6603478		
VO#39 - Portion 12 Area 9 (CB008) Signalling Design Changes	6624483	li .	
VO#42 - Portion 18 Area 9 CB202 Level Transition Installation Modification	6624860		

Infrastructure & Place
Automatic Train Protection Program
7 Harvest Street, Macquarie Park NSW 2113.
PO Box K659, Haymarket NSW 1240.
T (02) 9200 0200
ABN: 18 804 239 602



VO#47 - Portion 18 Area 9 Design Modifications (MOD-005)	6643372	
VO#49 - Portion 17 Area 9 - Flemington & Lidcombe Design Modifications MOD-006	6643537	
VO#50 - Portion 15 Area 9 Newtown to Burwood Design Modifications (MOD-007a & MOD-013)	6643572	
VO#54 - Portion 16 Area 9 Modified Signalling Design (MOD008)	6646391	
VO#55 - Portion 13 Area 9 Modified Signalling Design (MOD022)	6648603	
VO#56 - Portion 15 Area 9 West Level Transition Removals Design	6648756	
VO#57 - Portion 15 Area 9 Central Level Transition Removals Design	6648797	
VO#60 - Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	6663454	
VO#61 - Area 9 Portion 17 Design Modifications Flemington (Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-032, MOD-036 and MOD- 037)	6663455	

Portions 20-21 (As-Built)

Variation Number / Description	Letter Ref	Date Issued
VO# 53 - Splitting of as-builts for Portion 20 and 21	6660936	

TfNSW acknowledges that the above variations have resulted in extension to the Date for Completion of Portions 11 (sub-Area 7.2), 13 to 18 (Area 9) and Portions 20 and 21 (as-builts for Areas 6,7.2, 8 and 9) and have resulted in additional costs.

Date for Completion

Pursuant to Clause 18.4 of the Agreement, TfNSW hereby grants an extension of time to the Date for Completion as detailed in table 1 below:

Table 1

Portion	Area	Current Date for Completion	Revised Date for Completion	EOT (Business Days)
11	Area 7.2			239
12	Area 9.4			82
13	Area 9.3			190
14	Area 9.2			138
15	Area 9.5			231

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19/04/2022

Dated:

16	Area 9.7	-0	225
17	Area 9.6	W-0	109
18	Area 9.1		205
20	As Built for Areas 6, 7.2 & 8		173
21	As Built for Area 9		160

Adjustment to the Fee (Claim Amount):

TfNSW has assessed Alstom's proposed Claim for an additional amount of \$ 477,406.50 (excl. GST) for the additional project management costs associated with the overall extended duration, using the unit rates set out in Schedule 6 of the Agreement.

Please refer to Table 2 below for the breakdown of the Claimed amount of \$ 477,406.50 (excl. GST)

For avoidance of doubt, TfNSW clairifes that Alstom has agreed to claim the preliminary costs for 150 buisness days instead of 160 buiness days of extension.

Table 2

Role	Daily Rate	Business Days	Amount
Project Management			
Total exc	. GST		\$477,406.50

Revised Fee:

The Fee is adjusted by a lump sum amount of \$477,406.50(excl GST) to a total value of \$35,454,289.75 (excl. GST) as detailed in Attachment A.

TfNSW requests Alstom's acceptance of this letter in the space provided on the following page and returning a signed copy in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,

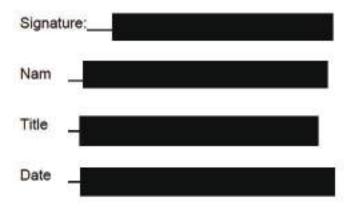
Alia Karaman Principal's Representative ATP Program

Attachment(s): Attachment A - Revised Contract Sum

8664492



Extension of Time Claim to the Date for Completion and associated project management costs is accepted for and behalf of Alstom Transport Australia Pty Ltd:



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Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option - Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks - Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Yard Entry and Exit BGs Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 - Reworks - Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04
Variation 15 - Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 - Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 –KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD- 003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00

6664492 5 of 7



Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level	\$91,398.70
Crossing	GEO 114 44
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 43 - Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 - Portion 10 Area - CB137 Modification &	\$74,818.02



evised Fee	\$35,454,289.75
laim - Extension of Time and Associated Project anagement Costs - Portions 11 (Sub-Area 7.2), 13-18 area 9) and Portions 20 and 21 (As-Built for Areas 7.2, 8 and 9)	\$477,406.50
ariation 61 - Area 9 Portion 17 Design Modifications emington (Goods Junction, Car Sidings), Lidcombe & orth Strathfield (MOD-032, MOD-036 and MOD-037)	\$230,619.70
ariation 60 - Area 9 Portion 15 Design Modifications MOD-021a and MOD-029a)	\$131,881.84
ariation 59 – Merging of Split CB Data – CB 078 (Area 6) nd CB 015 (Area 8)	\$185,707.08
ariation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria esign Modifications (MOD-005-MOD-009)	\$144,913.94
ariation 57 - Portion 15 Area 9 West LT Removal Design	\$341,807.46
ariation 56 - Portion 15 Area 9 West LT Removal Design	\$333,939.00
ariation 55 – Portion 13 Area 9 Modified Signaling Design (IOD022)	\$127,392.62
ariation 54 – Portion 16 Area 9 Modified Signaling Design (IOD008)	\$226,049.46
ariation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
ortion 9 Area 8 LT Removals	-0.00 kg

6664492 7 of 7



ATP Letter I	Ref: 6669484
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 62 - Area 7.2 Portion 11 (Zig-Zag to Lithgow) MOD-014

(NIT Observation Reports 17&18)

TfNSW refers to Alstom's letter noted above dated 9 May 2022, where Alstom submitted a variation proposal for Portion 11, Area 7, in response to TfNSW's letter ref. 6657898, dated 25 February 2022, where it directed Alstom to comply with modified Signalling Design (MOD-014) for Portion 11, issued under TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000439 on 25 February 2022.

Further to the above, TfNSW acknowledges that afore-noted modified Signaling Package has resulted in reworks to the Contract Material for Portion 11. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 62 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 11, Area 7.2, as per modified Signalling Design, issued via TeamBinder transmittal ATP-TFNSW-ALS-TX-000439 dated 25 February 2022 (copy enclosed):

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation:

Table 1

Circuit Book	Impacted BG/IP Count
CB124	2
CB125	4
Total	6

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$81,956.78 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.



Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours		Hours		Hours		R	ate	Α	mount
Data Preparation Engineer										
Data Preparation Manager										
Data Validation Engineer										
Data Validation Manager										
System Assurance										
Independent Professional Review										
Design Management										
Total			97	81,956.78						

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$81,956.78 (excl. GST) to a total value of \$35,536,246.53 (excl. GST) as detailed in **Attachment A**.

Date for Completion:

The impact to the Date for Completion of Portion 11 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

TfNSW requests Alstom's acceptance of this variation no. 62 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,

Alia Karaman Principal's Representative

Dated:

Attachment - TeamBinder transmittal number ATP-TFNSW-ALS-TX-000439

6669484 2 of 5



Variation 62 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:
Name (print):
Position:
Date:

6669484 3 of 5



Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 - Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 - Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 - Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 - Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 - Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 - Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 - Reworks - Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 - Yard Entry and Exit BGs Area 1 Portion 3 - Epping	\$53,351.52
Variation 12 - Reworks - Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 - Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04
Variation 15 - Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 - Portion 6 - Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 - Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 - Area 8 Portion 8 (Fairfield- Sefton Park - Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 –KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 - Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) - NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) - Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64

6669484 4 of 5



Revised Fee	\$35,536,246.53
(NIT Observation Reports 17&18)	\$81,956.78
(As-Built for Areas 6,7.2, 8 and 9) Variation 62- Area 7.2 Portion 11 (Zig-Zag to Lithgow) MOD-014	
- Portions 11 (Sub-Area 7.2), 13-18 (Area 9) and Portions 20 and 21	\$477,406.50
Claim - Extension of Time and Associated Project Management Costs	A 177 100
032, MOD-036 and MOD-037)	,
(Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-	\$230,619.70
MOD-029a) Variation 61 - Area 9 Portion 17 Design Modifications Flemington	-
Variation 60 - Area 9 Portion 15 Design Modifications (MOD-021a and	\$131,881.84
Variation 59 – Merging of Split CB Data – CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.46
Variation 56 – Portion 15 Area 9 West LT Removal Design	\$333,939.00
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 42 – Portion 18 Area 9 Redfern (CB202) - Level Transition	\$58,158.70
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Installation at St Leonard and Track Slew Works CB008 Variation 37 – Area 6 Portion 7 NIT Modifications	\$132,498.47 \$212,489.68
Transition Removal and Merging CB009 Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT	

5 of 5



ATP Letter F	Ref: 6670937
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 63 - Area 9 Portion 13 and Portion 14 Design

Modifications (NIT Observation Reports 22, 25 & 28)

TfNSW refers to Alstom's letter noted above dated 16 May 2022, where Alstom submitted a variation proposal for Portion 13 and Portion 14 in Area 9, in response to the following:

- 1. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000693, dated 9 December 2021, where it issued to Alstom the NIT observation report 025 for sub-Areas 9.5 & 9.6:
- 2. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000790, dated 21 March 2022, where it issued to Alstom the NIT observation report 028 for sub-Areas 9.1,9.2,9.3 & 9.7;
- 3. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000792, dated 22 March 2022, where it issued to Alstom the NIT Observation report 025 (North Sydney-D LINK) for sub-Areas 9.1,9.2,9.3 & 9.7; and
- 4. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000799, dated 23 March 2022, where it issued to Alstom the NIT Observation report 022 for sub-Areas 9.1,9.2,9.3 & 9.7.

Further to the above, TfNSW acknowledges that afore-noted NIT observation reports have resulted in reworks to the Contract Material for Portion 13 and Portion 14. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 63 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 13 and Portion 14, Area 9, as per NIT observationreports issued via following TeamBinder correspondences (copies enclosed):

- a. ATP-TFNSW-ALS-CORR-000693, dated 9 December 2021;
- b. ATP-TFNSW-ALS-CORR-000790, dated 21 March 2022;
- c. ATP-TFNSW-ALS-CORR-000792, dated 22 March 2022; and
- d. ATP-TFNSW-ALS-CORR-000799, dated 23 March 2022.

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation:



Table 1

Circuit Book	Impacted BG/IP Count
CB011	2
CB031	3
CB440	7
CB442	3
CB444	3
CB448	1
Total	7

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$129,309.52 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Total			\$129,309.52

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$129,309.52 (excl. GST) to a total value of \$35,665,556.05 (excl. GST) as detailed in **Attachment A**.

Date for Completion:

The impact to the Date for Completion of Portion 13 and Portion 14 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

6670937 2 of 5



TfNSW requests Alstom's acceptance of this variation no. 63 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,



Alia Karaman Principal's Representative

Dated:

Attachment -

TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000693 TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000790 TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000792 TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000799

Variation 63 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _	
Name (print): _	
Position: _	
Date:	_

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Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 – Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 – Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 – Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 – Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 – Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 – Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 – Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 – Reworks – Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 – Yard Entry and Exit BGs Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 – Reworks – Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03
Variation 13 – Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 – Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04
Variation 15 – Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 – Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 – Portion 6 – Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 – Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 – Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 – Area 8 Portion 8 (Fairfield- Sefton Park – Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 –KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 – Unproductive Man-Hours Claim – Jan 2021 – Mar 2021	\$279,626.10
Variation 27 – Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 - Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) – NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) – Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94

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Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) – Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 56 – Portion 15 Area 9 West LT Removal Design	\$333,939.00
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.46
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 59 – Merging of Split CB Data – CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08
Variation 60 – Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	\$131,881.84
Variation 61 – Area 9 Portion 17 Design Modifications Flemington (Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-032, MOD-036 and MOD-037)	\$230,619.70
Claim – Extension of Time and Associated Project Management Costs – Portions 11 (Sub-Area 7.2), 13-18 (Area 9) and Portions 20 and 21 (As-Built for Areas 6,7.2, 8 and 9)	\$477,406.50
Variation 62- Area 7.2 Portion 11 MOD-014 (NIT Observation Reports 17&18)	\$81,956.78
Variation 63 - Area 9 Portion 13 and Portion 14 Design Modifications (NIT Observation Reports 22, 25 & 28)	\$129,309.52
Revised Fee	\$35,665,556.05

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ATP Letter F	Ref: 6671513
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 64 – Area 9 Portion 17 Design Modifications (NIT Observation Reports 37, 38 & 42)

TfNSW refers to Alstom's letter noted above dated 19 May 2022, where Alstom submitted a variation proposal for Portion 17, in response to the following:

- 1. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000793, dated 23 March 2022, where it issued to Alstom the NIT observation report 037 for sub-Areas 9.5 and 9.6;
- 2. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000794, dated 23 March 2022, where it issued to Alstom the NIT observation report 038 for sub-Areas 9.5 and 9.6; and
- 3. TfNSW's TeamBinder correspondence ref ATP-TFNSW-ALS-CORR-000795 dated 23 March 2022, where it issued to Alstom the NIT observation report 042 for sub-Areas 9.5 and 9.6.

Further to the above, TfNSW acknowledges that afore-noted NIT observation reports have resulted in reworks to the Contract Material for Portion 17. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 64 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 17, Area 9, as per NIT observation reports issued via following TeamBinder correspondences (copies enclosed):

- a. ATP-TFNSW-ALS-CORR-000793, dated 23 March 2022;
- b. ATP-TFNSW-ALS-CORR-000794, dated 23 March 2022; and
- c. ATP-TFNSW-ALS-CORR-000795, dated 23 March 2022.

Further, TfNSW summarises in table 1 below the number of balise groups impacted under this variation:

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Table 1

Circuit Book	Impacted BG/IP Count
CBFCS	1
CBFGJ	5
CBLID	1
Total	7

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$113,514.38 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount	
Data Preparation Engineer				
Data Preparation Manager				
Data Validation Engineer				
Data Validation Manager				
System Assurance				
Independent Professional Review				
Design Management				
Total			\$113,514.38	

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$113,514.38 (excl. GST) to a total value of \$35,779,070.43 (excl. GST) as detailed in **Attachment A**.

Date for Completion:

The revised Date for Completion including other key milestones for Portion 17 are summarised in table 3 below:

Table 3

Milestone Portion 17	Date	
Validated Data Delivery		
Assurance Pack Delivery		
Date for Completion		

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TfNSW requests Alstom's acceptance of this variation no. 64 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Yours sincerely,



Alia Karaman Principal's Representative

Dated:

Attachment -

TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000793 TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000794 TeamBinder correspondence number ATP-TFNSW-ALS-CORRO-000795

Variation 64 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _
Name (print): _
Position: _
Date:

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Attachment A - Revised Fee

Description	Value
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 – Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 – Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 – Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 – Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 – Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 – Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 – Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 – Reworks – Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 – Yard Entry and Exit BGs Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 – Reworks to Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03
Variation 13 – Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 – Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04
Variation 15 – Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 – Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 – Portion 6 – Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 – Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 – Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 – Area 8 Portion 8 (Fairfield- Sefton Park – Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 – KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59

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	0012
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 – Unproductive Man-Hours Claim – Jan 2021 – Mar 2021	\$279,626.10
Variation 27 – Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44
Variation 30 – Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) – NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) – Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) – Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Defects Modification and LT Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06

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Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 56 – Portion 15 Area 9 West LT Removal Design	\$333,939.00
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.46
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 59 – Merging of Split CB Data – CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08
Variation 60 – Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	\$131,881.84
Variation 61 – Area 9 Portion 17 Design Modifications Flemington (Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-032, MOD-036 and MOD-037)	\$230,619.70
Claim – EoT and Associated Project Management Costs – Portions 11 (Sub-Area 7.2), 13-18 (Area 9) and Portions 20 and 21 (As-Built for Areas 6,7.2, 8 and 9)	\$477,406.50
Variation 62- Area 7.2 Portion 11 MOD-014 (NIT Observation Reports 17&18)	\$81,956.78
Variation 63 - Area 9 Portion 13 and Portion 14 Design Modifications (NIT Observation Reports 22, 25 & 28)	\$129,309.52
Variation 64 - Area 9 Portion 17 Design Modifications (NIT Observation Reports 37, 38 & 42)	\$113,514.38
Revised Fee	\$35,779,070.43

6 of 6



ATP Letter F	Ref: 6669485
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue, North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 65 - Area 9 Portion 16 and Portion 18 Design Modifications (Various, including MTMS)

TfNSW refers to Alstom's letter noted above dated 3 June 2022, where Alstom submitted a variation proposal for Portion 16 and Portion 18 in Area 9, in response to the following:

- TfNSW's letter ref. 6656752, dated 23 February 2022, where it directed Alstom to comply with revised Signalling Design (MOD-047 & MOD 048B) pertaining to Portion 16, issued via TeamBinder transmittal ref ATP-TFNSW-ALS-TX-000437 on 22 February 2022; and
- TfNSW's letter ref. 6656756, dated 23 February 2022, which directed Alstom to amend the Contract Material for Portion 18 arising from the modified Signalling Design issued via Teambinder transmittal ref. ATP-TFNSW-ALS-TX-000436 on 22 February 2022.

Further to the above, TfNSW acknowledges that the revised Signaling Design issued via Teambinder transmittals noted above has resulted in reworks to the Contract Material for Portion 16 and Portion 18. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 65 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 16 and Portion 18, Area 9, to incorporate the revised Signalling Design issued via following TeamBinder transmittals (copies enclosed):

- a. ATP-TFNSW-ALS-TX-000436, dated 22 February 2022.
- b. ATP-TFNSW-ALS-TX-000437, dated 22 February 2022, and

Further, TfNSW summarises in table 1 below the total number of balise groups impacted under this variation:



Table 1

	Impacted BG/IP Count		200000
Circuit Book	MTMS STAR	MTMS DR Sheet	NIT Observations
CB044	II.		2
CBRR1		3	
CBRR3			7
CBRR4			3
CBRR6	3		
CBRR7	1		
CBRR9		2	
CBWSA	2		
Sub-Total	6	5	12
		Total	23

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$240,748.30 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

MTMS STAR Modifications			
Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
Sub-Total			\$95,898.56
MTMS DR Sheet / NIT Observatio	ns		
Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			

6669485 2 of 6



2/06/2022

Dated:

Independent Professional Review			
Design Management			
	100-00	Sub-Total	\$144,849.74
		Total	\$240,748.30

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$240,748.30 (excl. GST) to a total value of \$36,019,818.73 (excl. GST) as detailed in **Attachment A**.

Date for Completion:

The impact to the Date for Completion of Portion 16 and Portion 18 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date
Validated Data Delivery	
Assurance Pack Delivery	
Date for Completion	

TfNSW requests Alstom's acceptance of this variation no. 65 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi_joseph@transport.nsw.gov.au).

Yours sincerely.

-		
Alia Karaman		
Principal's Represer	ntative	

Attachment – TeamBinder transmittal number ATP-TFNSW-ALS-TX-000436 TeamBinder transmittal number ATP-TFNSW-ALS-TX-000437

Variation 65 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature: _	
Name (print):	
Position:	
Date:	

6669485



Attachment A - Revised Fee

Description	Amount (excl. GST)	
Original Fee	\$23,438,464.80	
Option – Data Design Resources for Area 7	\$735,123.20	
Variation 1 – Reworks to Portion 1 Contract Material	\$80,447.44	
Variation 2 – Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00	
Variation 3 – Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00	
Variation 4 – Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26	
Variation 5 - Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40	
Variation 6 - Unproductive man-hours Claim (Nov' 2019 - Feb' 2020)	\$651,040.00	
Variation 7 - Reworks to the Contract Material for Portions 1 to 4	\$508,112.99	
Variation 8 - Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84	
Variation 9 – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60	
Variation 10 - Reworks - Portion 11 Katoomba to Mt Victoria	\$92,273.28	
Variation 11 - Yard Entry and Exit BGs Area 1 Portion 3 - Epping	\$53,351.52	
Variation 12 – Reworks – Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03	
Variation 13 - Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28	
Variation 14 - Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04	
Variation 15 - Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24	
Variation 16 - Portions 6 Signalling Design MODs	\$28,535.67	
Variation 17 - Portion 6 - Additional BGs CB117 LT Removal	\$30,816.84	
Variation 18 – Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97	
Variation 19 - Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76	
Variation 20 – Area 8 Portion 8 (Fairfield- Sefton Park – Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87	
Variation 21 –KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05	
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27	
Variation 23 - Portion 9 Airport Line Speed Sign Changes	\$106,628.91	
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59	
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00	
Variation 26 - Unproductive Man-Hours Claim - Jan 2021 - Mar 2021	\$279,626.10	
Variation 27 - Portion 5 (MOD-002) NIT Defects	\$135,163.83	
Variation 28 - Portion 7 and Portion 8 - Pine Road Level Crossing	\$91,398.70	
Variation 29 - Portion 14 (Area 9.2) MOD-003	\$53,114.44	
Variation 30 - Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04	

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Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) – NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) – Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) – Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Modification & LT Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
Variation 54 – Portion 16 Area 9 Modified Signaling Design (MOD008)	\$226,049.46
Variation 55 – Portion 13 Area 9 Modified Signaling Design (MOD022)	\$127,392.62
Variation 56 – Portion 15 Area 9 West LT Removal Design	\$333,939.00
Variation 57 – Portion 15 Area 9 West LT Removal Design	\$341,807.46
Variation 58 – Portion 11 Area 7.2 Katoomba to Mt. Victoria Design Modifications (MOD-005-MOD-009)	\$144,913.94
Variation 59 – Merging of Split CB Data – CB 078 (Area 6) and CB 015 (Area 8)	\$185,707.08

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Variation 60 - Area 9 Portion 15 Design Modifications (MOD-021a and MOD-029a)	\$131,881.84
Variation 61 – Area 9 Portion 17 Design Modifications Flemington (Goods Junction, Car Sidings), Lidcombe & North Strathfield (MOD-032, MOD-036 and MOD-037)	\$230,619.70
Claim – Extension of Time and Associated Project Management Costs – Portions 11 (Sub-Area 7.2), 13-18 (Area 9) and Portions 20 and 21 (As-Built for Areas 6,7.2, 8 and 9)	\$477,406.50
Variation 62- Area 7.2 Portion 11 (Zig-Zag to Lithgow) MOD-014 (NIT Observation Reports 17&18)	\$81,956.78
Variation 63 - Area 9 Portion 13 and Portion 14 Design Modifications (NIT Observation Reports 22, 25 & 28)	\$129,309.52
Variation 64 - Area 9 Portion 17 Design Modifications (NIT Observation Reports 37, 38 & 42)	\$113,514.38
This Variation 65 - Area 9 Portion 16 and Portion 18 Design Modifications (Various, including MTMS)	\$240,748.30
Revised Fee	\$36,019,818.73



ATP Letter F	Ref: 6674602
Alstom Ref:	

Alstom Transport Australia Pty Ltd 16 Giffnock Avenue. North Ryde, NSW 2113

Attention:

Dear

Automatic Train Protection Program (ATP)

AMS Area 1, 6, 7, 8 and 9 Trackside Data Design (ISD-17-6580) (Agreement)

Subject: Variation No. 66 - Portion 18 (Area 9.1) Signalling Design

Modifications - Network Integration Testing (NIT) Observation

Reports 31, 32 & 36

TfNSW refers to Alstom's letter noted above dated 3 June 2022, where Alstom submitted a variation proposal for Portion 18 (Area 9.1), in response to the following:

- 1. TfNSW's TeamBinder correspondence ref. letter ref. ATP-TFNSW-ALS-CORR-000815, dated 11 April 2022 (copy enclosed), where it issued to Alstom the NIT observation report 031 for sub-Areas 9.1, 9.2, 9.3 & 9.7;
- 2. TfNSW's TeamBinder correspondence ref. letter ref. ATP-TFNSW-ALS-CORR-000816, dated 11 April 2022 (copy enclosed), where it issued to Alstom the NIT observation report 032 for sub-Areas 9.1, 9.2, 9.3 & 9.7; and
- 3. TfNSW's TeamBinder correspondence ref. letter ref ATP-TFNSW-ALS-CORR-000841, dated 12 May 2022 (copy enclosed), where it issued the NIT observation report 036 for sub-Areas 9.1, 9.2, 9.3 & 9.7.

Further to the above, TfNSW acknowledges that afore-noted NIT observation reports (31, 332 and 36) have resulted in reworks to the Contract Material for Portion 18. As such, and pursuant to clause 16.2 of the Agreement, TfNSW issues this variation no. 66 to Alstom as detailed below:

Scope of Variation

Amend the Contract Material for Portion 18, Area 9.1, as per NIT observation reports 31, 32 and 36 transmitted via TeamBinder correspondence noted above.

TfNSW summarises in table 1 below the total number of balise groups impacted under this variation:

ABN: 18 804 239 602



Table 1

Circuit Book	Impacted BG/IP Count
CB202	4
CBRR9	2
CB044	1
Sub-Total	7

Variation Amount

Pursuant to clause 16.3 (b) of the Agreement, variation amount assessed at \$113,514.38 (excl. GST) using the hourly rates under Schedule 6 of the Agreement, and as amended under TfNSW letter ref. 6589030 dated 12 May 2021.

Please refer to table 2 below for detailed breakdown of the variation amount:

Table 2

Role	Hours	Rate	Amount
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Review			
Design Management			
		Total	\$113,514.38

Adjustment to the Fee

The Fee is adjusted by a lump sum amount of \$113,514.38 (excl. GST) to a total value of \$36,133,333.11 (excl. GST) as detailed in **Attachment A**.

Date for Completion:

The impact to the Date for Completion of Portion 18 arising from this variation and the key milestones are detailed in table 3 below:

Table 3

Description/Activity	Date
Validated Data Delivery	
Assurance Pack Delivery	
Date for Completion	

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TfNSW requests Alstom's acceptance of this variation no. 66 by signing in the space provided below and returning a signed copy in its entirety to Simmi Joseph (simmi.joseph@transport.nsw.gov.au).

Alia Karaman
Principal's Representative
Dated:

Attachment – TeamBinder transmittal number ATP-TFNSW-ALS-CORR-000815
TeamBinder transmittal number ATP-TFNSW-ALS-CORR-000816
TeamBinder transmittal number ATP-TFNSW-ALS-CORR-000841

Variation 66 is accepted for and on behalf of Alstom Transport Australia Pty Ltd:

Signature:

Name (print):

Position:

Date:

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Attachment A - Revised Fee

Description	Amount (excl. GST)
Original Fee	\$23,438,464.80
Option – Data Design Resources for Area 7	\$735,123.20
Variation 1 – Reworks to Portion 1 Contract Material	\$80,447.44
Variation 2 – Unproductive man-hours Claim (April' 19 – June 19)	\$504,400.00
Variation 3 – Unproductive man-hours Claim (July 19 – Oct' 2019)	\$362,765.00
Variation 4 – Amendment to Yard Entry & Exit BG at Hornsby (Portion 2)	\$64,596.26
Variation 5 – Mission Files Generation for Areas 1, 6, 7, 8 and 9	\$52,242.40
Variation 6 – Unproductive man-hours Claim (Nov' 2019 – Feb' 2020)	\$651,040.00
Variation 7 – Reworks to the Contract Material for Portions 1 to 4	\$508,112.99
Variation 8 – Non-Productive Man-Hours Costs (Mar' 20 to May' 20)	\$773,811.84
Variation 9 – Fixed Balise Solution Areas 6, 7.2 and 8	\$156,112.60
Variation 10 – Reworks – Portion 11 Katoomba to Mt Victoria	\$92,273.28
Variation 11 – Yard Entry and Exit BGs Area 1 Portion 3 – Epping	\$53,351.52
Variation 12 – Reworks – Portion 4 Concord West to Eastwood (MOD003)	\$103,947.03
Variation 13 – Non-Productive Man-Hours Costs (June' 20 to Aug' 20)	\$205,081.28
Variation 14 – Yard Entry & Exit BGs (Q-Link) Portions 5-10	\$27,314.04
Variation 15 – Yard Entry & Exit BGs (Q-Link) Portion 11 (Area 7.2)	\$6,303.24
Variation 16 – Portions 6 Signalling Design MODs	\$28,535.67
Variation 17 – Portion 6 – Additional BGs CB117 LT Removal	\$30,816.84
Variation 18 – Portion 2 Hornsby (MOD-002) NIT Defects	\$96,533.97
Variation 19 – Non-Productive Man-Hours Costs (Sep' 20 to Dec' 20)	\$592,515.76
Variation 20 – Area 8 Portion 8 (Fairfield- Sefton Park – Liverpool) Sefton Park Speed Sign changes MOD-001	\$84,858.87
Variation 21 –KAMF Yard Entry and Exit Balise Groups Data Design	\$164,581.05
Variation 22 – Portion 2 Revised Signalling Design (MOD-003)	\$50,433.27
Variation 23 – Portion 9 Airport Line Speed Sign Changes	\$106,628.91
Variation 24 – Area 9 Fixed Balise Solution	-\$138,140.59
Variation 25 – Portion 7 (MOD-003) Auburn Signalling Design Changes	\$0.00
Variation 26 – Unproductive Man-Hours Claim – Jan 2021 – Mar 2021	\$279,626.10
Variation 27 – Portion 5 (MOD-002) NIT Defects	\$135,163.83
Variation 28 – Portion 7 and Portion 8 – Pine Road Level Crossing	\$91,398.70
Variation 29 – Portion 14 (Area 9.2) MOD-003	\$53,114.44

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Variation 30 – Portion 15 (Area 9.5) (MOD-001 & CB481 LT changes)	\$264,218.04
Variation 31 – Portion 17 (Area 9.6) (MOD-002) Flemington & Lidcombe	\$147,973.30
Variation 32 – Portion 6 (Area 6.2) – NIT Defects (MOD-002, MOD-003, MOD-004)	\$311,817.34
Variation 33 – Portion 7 (Area 9.6) – Auburn-Lidcombe LT (CB095)	\$172,331.94
Variation 34 – Portion 5 Area 6 Level Transition Removal (West)	\$151,677.64
Variation 35 – Portion 2 (Area 1) Data Design Changes Due to Level Transition Removal and Merging CB009	\$108,259.94
Variation 36 – Portion 12 (Area 9.3) Data Design Changes Due to LT Installation at St Leonard and Track Slew Works CB008	\$132,498.47
Variation 37 – Area 6 Portion 7 NIT Modifications	\$212,489.68
Variation 38 – SIT and KAMF As-built documentation	\$66,112.44
Variation 39 – Portion 12 Area 9 Modified Signalling Design (CB008)	\$74,818.02
Variation 40 – Area 8 Portion 9 (CB032) Signalling Design Chan	\$0.00
Variation 41 – Area 8 Portion 10 NIT Modifications	\$228,783.82
Variation 42 – Portion 18 Area 9 Redfern (CB202) – Level Transition	\$58,158.70
Variation 43 – Portion 8 Area 9 (CB022) NIT Modifications	\$60,747.74
Variation 44 – Portion 7 Area 6 Harris Park & Merrylands (MOD-008 & MOD-011)	\$135,918.12
Variation 45 – Portion 23 Area 3 & Area 6 ETCS Train Stops	\$133,513.52
Variation 46 – Portion 5 Area 6 NIT Modification and LT Removal	\$138,922.20
Variation 47 – Portion 5 Area 6 NIT Modification & LT Removal	\$508,693.38
Variation 48 – Portion 10 Area 8 Leppington Speed Sign Modifications	\$127,627.02
Variation 49 – Portion 17 Area 9 – Flemington & Lidcombe Design Modifications MOD-006	\$116,278.84
Variation 50 – Portion 15 Area 9 – Newtown to Burwood Design Modifications MOD-007a & MOD013	\$310,503.06
Variation 51 – Portion 22 KAMF NIT Modifications Design (MOD-003)	\$64,521.60
Variation 52 – Portion 10 Area – CB137 Modification & Portion 9 Area 8 LT Removals	\$74,818.02
Variation 53 – Splitting of As-Builts Documentation (Portions 20&21)	\$262,435.58
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