

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Initial Services for Trackside Areas 1, 6, 7, 8 & 9 Data Design**

TfNSW refers to tender reference no. ISD-17-6580 issued to Alstom Transport (Australia) Pty Limited (**'Alstom'**) for the AMS Trackside Data Design for Areas 1, 6, 7, 8 & 9 (**'Project'**) and Alstom's corresponding proposal received on 28 August 2018.

TfNSW advises that it is currently reviewing Alstom's proposal and anticipates to award the contract for the afore-noted Project on or before 19 October 2018.

Concurrent to TfNSW's review and discussions with Alstom and with a view of safeguarding the Project milestones, TfNSW seeks to progress with the Project.

To this effect, and in accordance with clause 16.1 of the abovementioned Contract, TfNSW directs Alstom to proceed with the following services (**'Initial Services'**):

1. Commence with immediate effect, critical items identified in Alstom's program for the Project, these predominately are, but not limited to, recruitment, mobilisation and training of the resources (proposal item ref A8), preparation of all management plans (proposal item ref A1), and any other activities which Alstom considers critical for the delivery of Project.
2. Attend at the interactive workshops with the Managing Contract contractor (Broadspectrum Australia Pty Limited) who is responsible for the detail design and construction of the ATP Trackside Areas 1, 6, 7 & 8 to discuss technical matters.

Should there be elements that TfNSW have not identified above that Alstom deems critical to the Project at this stage, Alstom is to notify TfNSW immediately for our consideration.

TfNSW directs Alstom to commence the above directed works to an upper limiting Fee of \$500,000 (excl. GST). If Alstom exhausts this set upper limiting Fee, prior to the contract award of the Project, it is to submit full substantiation on all services completed associated with the aforementioned direction.



For avoidance of doubt, TfNSW clarifies that upon the contract award of the Project, which the Initial Services and associated costs form part of, the Initial Services will be valued and certified for payment in accordance with the provisions of the contract for the Trackside Areas 1, 6, 7, 8 & 9 Data Design (ISD-17-6580) and the value of this variation will reduce to zero.

TfNSW requests Alstom to sign this variation 1 in the space provided below and return the same in its entirety to TfNSW's Sam Prebble via email (Sam.preble@transport.nsw.gov.au).

Yours sincerely,



Peter Jones
Principal's Representative

Dated: 25/09/2018

Variation 1 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Print Name: _____

Position: _____

Date: _____



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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 2 - Initial Services for New Intercity Fleet (NIF) Program -
Automatic Selective Door Operation (ASDO) Data Design**

TfNSW advises that it intends to release the Request for Proposal (RFP) for the data design scope for the Automatic Selective Door Operation (ASDO) ('**Project**'), tender reference ISD-17-7482 to Alstom Transport (Australia) Pty Limited ('**Alstom**') in the coming days.

In the interim, in order to safeguard the Project milestones, TfNSW seeks to progress with the mobilisation and training of key personnel required for the Project.

To this effect, and in accordance with clause 16.1 of the abovementioned Contract, TfNSW directs Alstom to proceed with the following services ('**Initial Services**')

1. Commence with immediate effect, critical items including but not limited to, recruitment, mobilisation and training of the resources, and any other activities which Alstom considers critical for the delivery of Project.
2. Attendance at the interactive workshops, when directed, with the signalling design contractor (WSP Pty Limited) who is responsible for the signalling detail design; and the construction contractor.
3. Undertake review and provide comments to the initial design deliverables produced by the signalling design contractor.

Should there be elements that TfNSW have not identified above that Alstom deems critical to the Project at this stage, Alstom is to notify TfNSW immediately for our consideration.

TfNSW directs Alstom to commence the above directed works to an upper limiting Fee of \$500,000 (excl. GST). If Alstom exhausts this set upper limiting Fee, prior to the award of the contract for the Project, it is to submit full substantiation on all services completed associated with the aforementioned direction.

For avoidance of doubt, TfNSW clarifies that upon the award of the contract for the Project, which the Initial Services and associated costs form part of, the Initial Services

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will be valued and certified for payment in accordance with the provisions of the contract for the NIF ASDO Data Design (ISD-17-7482) and the value of this variation will reduce to zero.

TfNSW requests Alstom to sign this variation 1 in the space provided below and return the same in its entirety to TfNSW's Sam Prebble via email (Sam.prebble@transport.nsw.gov.au).

Yours sincerely,



Peter Jones Andre Younes PP for Peter Jones
Principal's Representative

Dated: 15/11/18

Variation 2 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Print Name: _____

Position: _____

Date: _____

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
Professional Services Contract (PSC) No ISD-17-6378
Subject: Variation No.3 – Extension of Co-Location Lease**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced proposal dated 5 October 2018 in relation to the extension of co-location lease.

Further to this correspondence, subsequent communications between Alstom and TfNSW; and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation : to extend the co-location lease of Suite 2.01 at Level 2, 16 Giffnock Ave, North Ryde, 2113, for the period from [REDACTED] to [REDACTED].
2. Dates for Completion. There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum. The Fee is increased by \$279,029.00 excl GST for this Variation as described in Table 1 below :

Lease Extension	Price
Rent	
Outgoings	
Supplies, Servicing and Facilitation	
a. Printing (Paper, Toner and servicing)	
b. Tea/coffee/milk	
c. Cleaning	
Total	\$279,029.00

Table 1: Variation Amount

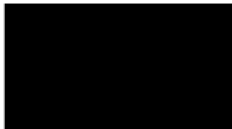
The Fee is revised to \$6,931,601.04 as described in Table 2 below.

Description	Value
Original Contract Fee	\$6,558,725.09
Variation 1 - Mobilisation & commencement of critical activities for Area 1,6,7,8 &9	\$0.00
Variation 2 – Mobilisation & commencement of critical activities for NIF ASDO	\$0.00
Variation 3 – Extension of co-location lease	\$279,029.00
Variation 4 – Provision of data design training for additional Sydney Trains staff	\$93,846.95
Revised Contract Sum	\$6,931,601.04

Table 2: Fee Adjustment Amount

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative

Dated: 11/01/2019

Variation 3 to ISD-17-6378 – Additional AMS Functions for Areas 4&5 is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
Professional Services Contract (PSC) No ISD-17-6378
Subject: Variation No.4 – Additional Training for Sydney Staff for Areas 4&5**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) original proposal reference [REDACTED] dated 18 September 2018 and subsequent above referenced proposal dated 15 November 2018 in relation to additional Data Design training for Sydney Trains staff for Areas 4&5.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: The additional Data Design training for Sydney Trains staff for Areas 4&5 to ensure competency in both data preparation and data validation post-handover of Area 3: Cardiff- Newcastle in March 2019.
2. Dates for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Fee: The Fee is increased by \$93,846.95 excl GST for this Variation as described in Table 1 below :

Item	Description	Duration (days / hours)	Resource	Hourly Rate	Daily Rate	Total
1	Overview Training Course		PrEM			
2	Data Prep Training Course		DPM			
3	Data Validation Training Course		DVM			
4	Data Prep Mentoring		DPM			
5	Data Validation Mentoring		DVM			
6	Project Management		PM			
7	Design Manager		DM			
8	Network Setup		IT			
Total						\$93,846.95

Table 1: Variation Amount

The Fee is revised to \$6,931,601.04 as shown in Attachment A.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au .

Yours sincerely,



Himesh Nair
Principal's Representative

Dated: 05/12/2018

Variation 4 to ISD-17-6378 – Additional AMS Functions for Areas 4&5 is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Description	Value
Original Contract Fee	\$6,558,725.09
Variation 1 – Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
Variation 2 – NIF ASDO Initial Services	\$0.00
Variation 3 – Extension of co-location lease	\$279,029.00
This variation 4 - Provision of data design training for additional ST staff	\$93,846.95
Total Revised Fee	\$ 6,931,601.04

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 6 – Incorporate Area 4&5 D&C Contractor Portion 2
Modifications and Stageworks**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 22 July 2019 and TfNSW's previous letter reference 6256621 dated 5 April 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 2 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 2 and Signalling Design Package 2 documents detailed in Attachment A and previously issue under TfNSW's afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$668,451.12 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			
Baseline Geo Data Validation still to be performed			

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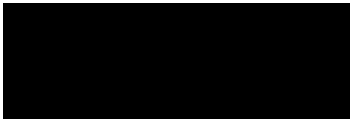
Role	Hourly Rates	Hours	Price
(DPM)			
Baseline Geo Data Validation still to be performed (DM)			
Total ex GST			\$668,451.12

Table 1: Fee Breakdown

b) The Fee is revised to \$7,600,052.16 as described in Attachment B

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal’s Representative
ATP Program

Dated: 19/09/19

Attachments:

- Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 as listed therein
- Attachment B – Revised Fee

Variation 6 for Portion 2 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	Date	Format
ATP-UGL-EM-000043	Portion 2 - Signalling Plan - Allawah (INCL) - Oatley (INC) (EXCL) – AEO (D0100011 2)	3	01/04/2019	Dg & Pdf
ATP-UGL-EM-000092	Portion 2 - Controls Tables - Hurstville - Sutherland - ETCS Balise and LEU Tables – AEO (ET010)	4	01/04/2019	MS Excel & PDF
ATP-UGL-EM-000044	Portion 2 - Site Certification Form - Hurstville - Sutherland – AEO (SCF010)	5	01/04/2019	MS Excel & Pdf
ATP-UGL-EM-000090	Portion 2 - Supporting Documentation - Calculations - HROL, HSSR, HRTO, Window of Expectation, Gradient Output Tables - AEO	3	01/04/2019	MS Excel
ATP-UGL-EM-000155	Portion 2 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO (2017-RSA-140-DDR-P02)*	4	01/04/2019	MSWord & Pdf

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	NIL COST
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications – This Variation	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBA
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	TBA
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	TBA
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	TBA
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	TBA
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$7,600,052.16

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 7 - Initial Services for New Intercity Fleet (NIF) Program -
Automatic Selective Door Operation (ASDO) Data Design**

TfNSW advises that, following the issue of the Request for Proposal (RFP) for the data design scope of the Automatic Selective Door Operation (ASDO) ('**Project**') based on the ATP and ASDO projects segregated solution, TfNSW is in the process of receiving and assessing Alstom Transport (Australia) Pty Limited ('**Alstom**')s tender in the coming days (reference ISD-17-7482).

In the interim, in order to safeguard the Project's milestones, TfNSW seeks to progress with the initial services required for the Project.

To this effect, and in accordance with clause 16.1 of the abovementioned Contract, TfNSW directs Alstom to proceed with the following services ('**Initial Services**'):

1. Commence with immediate effect, critical activities including but not limited to, recruitment, mobilisation and training of resources, as required, as well as any other activities which Alstom considers critical for the delivery of Project;
2. Attendance at the interactive workshops, when directed by TfNSW;
3. Undertake review and provide comments to the initial design deliverables produced by the signalling design contractor, as well as to undertake a review and provide comments on the SRS and on the MMR and DVMER documents described in section 3.6 of the Services Brief included in the RFP (Portion 17). This shall also require the attendance at workshops as required by TfNSW. It is envisaged that these workshops will be held within 5 – 10 Business Days of the date of this Variation; and
4. Preparation and submission of the management plans described in section 7.1 of the Services Brief. Alstom are to prioritise the submission of the management plans as ordered below with the final management plan to be submitted for TfNSW's review and comment no later than 23 May 2019:
 - a) 7.1.7 Design management plan;
 - b) 7.1.2 Contract management plan
 - c) 7.1.9 Safety assurance plan;
 - d) 7.1.6 Interface management plan;
 - e) 7.1.5 Quality management plan; and

Infrastructure & Place

Automatic Train Protection Program
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- f) 7.1.8 Risk management plan
- g) 7.1.3 Rail safety management plan
- h) 7.1.4 Fatigue management plan
- i) 7.1.10 Design defects management plan

Should there be elements of Initial Services that TfNSW has not identified above and that Alstom deems critical to the Project at this stage, Alstom is to notify TfNSW immediately for our consideration.

TfNSW directs Alstom to commence the above directed works to an upper limiting Fee of \$500,000 (excl. GST). If Alstom exhausts this set upper limiting Fee, prior to the award of the contract for the Project, it is to submit full substantiation on all services completed associated with the aforementioned direction.

For the avoidance of doubt, TfNSW clarifies that upon the award of the contract for the Project, which the Initial Services and associated costs form part of, the Initial Services will be valued and certified for payment in accordance with the provisions of the contract for the NIF ASDO Data Design (ISD-17-7482) and the value of this variation will reduce to zero.

TfNSW requests Alstom to sign this Variation 7 in the space provided below and return the same in its entirety to TfNSW's Sam Prebble via email (Sam.prebble@transport.nsw.gov.au).

Yours sincerely,



Himesh Nair
Principal's Representative

Date: 07/05/2019

Variation 7 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Print Name: _____

Position: _____

Date: _____

ATP Letter Ref: 6333046
Alstom Ref:

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 8 – Incorporate Area 4&5 D&C Contractor Portion 5
Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 22 July 2019 and TfNSW’s previous letter reference 6270622 dated 6 May 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 5 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 5 and Signalling Design Package 5 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$611,579.82 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			
Total ex GST			\$611,579.82

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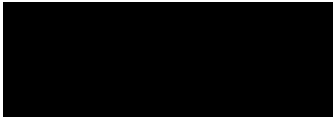


Table 1: Fee Breakdown

b) The Fee is revised to \$8,211,800.39 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



**Himesh Nair
Principal’s Representative
ATP Program**

Dated: 11/09/2019

Attachments:

- Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5 as listed therein
- Attachment B – Revised Fee

Variation 8 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000021	Portion 5 - Signalling Plan - Unanderra Signalling plan - AEO Approved	3	26/04/2019	PDF & DGN
ATP-UGL-EM-000022	Portion 5 - Signalling Plan - Dapto to Kiama - AEO Approved	3	26/04/2019	PDF & DGN
ATP-UGL-EM-000023	Portion 5 - Controls Tables - Unanderra ETCS Balise and LEU Tables - AEO Approved	4	26/04/2019	PDF & XLS
ATP-UGL-EM-000024	Portion 5 - Site Certification Form - Unanderra - AEO Approved	4	29/04/2019	PDF & XLS
ATP-UGL-EM-000025	Portion 5 - Site Certification Form - Albion Park - AEO Approved	5	29/04/2019	PDF & XLS
ATP-UGL-EM-000026	Portion 5 - Site Certification Form - Dunmore - AEO Approved	4	29/04/2019	PDF & XLS
ATP-UGL-EM-000027	Portion 5 - Site Certification Form - Bombo - AEO Approved	4	29/04/2019	PDF & XLS
ATP-UGL-EM-000028	Portion 5 - Site Certification Form - Kiama - AEO Approved	5	29/04/2019	PDF & XLS
ATP-UGL-EM-000029	Portion 5 - Site Certification Form - Dapto - AEO Approved	5	29/04/2019	PDF & XLS
ATP-UGL-EM-000030	Portion 5 - Controls Tables - Albion Park ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000031	Portion 5 - Controls Tables - Dunmore ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000032	Portion 5 - Controls Tables - Bombo ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000033	Portion 5 - Controls Tables - Kiama ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000034	Portion 5 - Controls Tables - Dapto ETCS Balise and LEU Tables - AEO Approved	4	02/05/2019	PDF & XLS
ATP-UGL-EM-000091	Portion 5 - Supporting Documentation - Calculations - Unanderra Kiama, Bombo AEO Approved	3	02/05/2019	XLS
ATP-UGL-EM-000121	Portion 5 - Supporting Documentation - Calculations - Dunmore, Albion Park, Dapto - AEO Approved	4	02/05/2019	XLS
ATP-UGL-EM-000222	Portion 5 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved*	4	02/05/2019	PDF & MS Word
ATP-UGL-EM-000239	Portion 5 - Supporting Documentation - Gradient Table - AEO Approved	3	02/05/2019	XLS

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	TBA
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,619.53
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications – This Variation	\$611,579.82
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	TBA
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	TBA
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	TBA
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	TBA
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$8,211,800.39

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 9 – Incorporate Area 4&5 D&C Contractor Portion 1
Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 22 July 2019 and TfNSW’s previous letter reference 6271474 dated 9 May 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 1 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 1 and Signalling Design Package 1 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$368,099.08 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Independent Professional Reviewer			
System Assurance			
Total ex GST			\$368,099.08

Table 1: Fee Breakdown

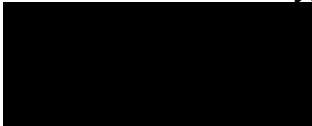
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Locked Bag 6501, St Leonards NSW 2065.
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ABN: 18 804 239 602



b) The Fee is revised to \$8,579,722.90 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 11/09/2019

Attachments:

Attachment A - Revised Signalling Plan Package 1 and Signalling Design Package 1 as listed therein

Attachment B – Revised Fee

Variation 9 for Portion 1 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 1 and Signalling Design Package 1

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000017	Portion 1 - Signalling Plan - Sutherland (Excl) - Cronulla (INCL) - AEO Approved	3	30/04/2019	PDF & DGN
ATP-UGL-EM-000018	Portion 1 - Controls Tables - Cronulla ETCS Balise and LEU Tables - AEO Approved	4	30/04/2019	PDF & XLS
ATP-UGL-EM-000019	Portion 1 - Site Certification Form - Cronulla - AEO Approved	4	30/04/2019	PDF & XLS
ATP-UGL-EM-000020	Portion 1 - Site Certification Form - Sutherland - Cronulla - AEO Approved	4	30/04/2019	PDF & XLS
ATP-UGL-EM-000035	Portion 1 - Controls Tables - Sutherland (x) - Cronulla (x) ETCS Balise and LEU Tables - AEO Approved	3	23/04/2019	PDF & XLS
ATP-UGL-EM-000089	Portion 1 - Supporting Documentation - Calculations - BSTOP - Combined Gradient - DNCR - UPCR - Gradient output Table - AEO Approved	4	30/04/2019	XLS
ATP-UGL-EM-000133	Portion 1 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved	4	30/04/2019	PDF & MS Word

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	TBA
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications – This Variation	\$368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	TBA
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	TBA
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	TBA
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$8,579,722.90

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 10 – Incorporate Area 4&5 D&C Contractor Portion 3
Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 22 July 2019 and TfNSW's previous letter reference 6275154 dated 24 May 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 3 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 3 and Signalling Design Package 3 documents detailed in Attachment A and previously issued under TfNSW's afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$758,673.18 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Independent Professional Reviewer			
System Assurance			
Total ex GST			\$758,673.18

Table 1: Fee Breakdown



b) The Fee is revised to \$9,338,584.08 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 13/09/2019

Attachments:

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3 as listed therein

Attachment B – Revised Fee

Variation 10 for Portion 3 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000036	Portion 3 - Signalling Plan - Oatley to Engadine (EXCL) - AEA Approved	4	19/05/2019	PDF, DGN
ATP-UGL-EM-000095	Portion 3 - Signalling Plan - Engadine to Waterfall - AEA Approved	3	19/05/2019	PDF, DGN
ATP-UGL-EM-000096	Portion 3 - Controls Tables - Loftus Junction - Waterfall - AEO Approved	4	19/05/2019	PDF, MS Excel
ATP-UGL-EM-000097	Portion 3 - Site Certification Form - Oatley (excl) - Sutherland - Loftus - AEO Approved	5	23/05/2019	PDF, MS Excel
ATP-UGL-EM-000098	Portion 3 - Site Certification Form - Loftus Junction - Waterfall - AEO Approved	5	23/05/2019	PDF, MS Excel
ATP-UGL-EM-000099	Portion 3 - Site Certification Form - Waterfall - AEO Approved	6	23/05/2019	PDF, MS Excel
ATP-UGL-EM-000101	Portion 3 - Supporting Documentation - Calculations - HROL, HSSR, HRTO - AEO Approved	4	19/05/2019	ZIP
ATP-UGL-EM-000114	Portion 3 - Controls Tables - Oatley (EXCL) - Sutherland - Loftus JNC - AEO Approved	4	19/05/2019	PDF, MS Excel
ATP-UGL-EM-000118	Portion 3 - Supporting Documentation - Gradient Tables - AEO Approved	3	19/05/2019	MS Excel
ATP-UGL-EM-000127	Portion 3 - Controls Tables - Waterfall - AEO Approved	4	19/05/2019	PDF, MS Excel
ATP-UGL-EM-000152	Portion 3 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved*	4	23/05/2019	PDF, MSWord

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	0.00
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,619.53
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,118.67
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications – This Variation	\$758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	TBA
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	TBA
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$9,338,584.08

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 11– Incorporate Area 4&5 D&C Contractor Portion 7
Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 22 July 2019 and TfNSW’s previous letter reference 6302644 dated 28 June 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 7 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 7 and Signalling Design Package 7 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$548,234.34 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Independent Professional Reviewer			
System Assurance			
Baseline Geo Data Validation still to be performed (DPM)			

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



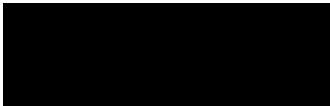
Role	Hourly Rates	Hours	Price
Baseline Geo Data Validation still to be performed (DM)			
Total ex GST			\$548,234.34

Table 1: Fee Breakdown

b) The Fee is revised to \$9,886,818.42 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 13/09/2019

Attachments:

Attachment A - Revised Signalling Plan Package 7 and Signalling Design Package 7 as listed therein

Attachment B – Revised Fee

Variation 11 for Portion 7 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 7 and Signalling Design Package 7

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000102	Portion 7 - Signalling Plan - Corrimal - AEO Approved	4	20/06/19	PDF, DGN
ATP-UGL-EM-000112	Portion 7 - Supporting Documentation - Calculations - AEO Approved	4	24/06/19	ZIP
ATP-UGL-EM-000113	Portion 7 - Supporting Documentation - Gradient Table - AEO Approved	4	24/06/19	Excel
ATP-UGL-EM-000120	Portion 7 - Controls Tables - Corrimal - AEO Approved	4	20/06/19	PDF, Excel
ATP-UGL-EM-000129	Portion 7 - Site Certification Form - Corrimal - AEO Approved	4	25/06/19	PDF, Excel
ATP-UGL-EM-000130	Portion 7 - Signalling Plan - Thirroul - AEO Approved	3	24/06/19	PDF, DGN
ATP-UGL-EM-000131	Portion 7 - Site Certification Form - Thirroul - AEO Approved	4	25/06/19	PDF, Excel
ATP-UGL-EM-000132	Portion 7 - Controls Tables - Thirroul - AEO Approved	3	24/06/19	PDF, Excel
ATP-UGL-EM-000169	Portion 7 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved *	4	25/06/19	PDF, Word

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	TBA
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,619.53
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,118.67
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	TBA
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$9,886,818.42

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 12– Incorporate Area 4&5 D&C Contractor Portion 4
Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 22 July 2019 and TfNSW’s previous letter reference 6288017 dated 3 June 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 4 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 4 and Signalling Design Package 4 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$305,353.50 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management			
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
Independent Professional Reviewer			
System Assurance			
Baseline Geo Data Validation still to be performed (DPM)			



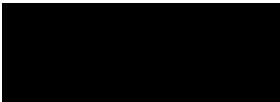
Role	Hourly Rates	Hours	Price
Baseline Geo Data Validation still to be performed (DM)			
Total ex GST			\$305,353.50

Table 1: Fee Breakdown

b) The Fee is revised to \$10,191,983.92 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 13/09/2019

Attachments:

Attachment A - Revised Signalling Plan Package 4 and Signalling Design Package 4 as listed therein
Attachment B – Revised Fee

Variation 12 for Portion 4 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 4 and Signalling Design Package 4

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000134	Portion 4 - Site Certification Form - Arncliffe - Carlton - AEO Approved	6	27/05/2019	PDF, MSEXcel
ATP-UGL-EM-000137	Portion 4 - Signalling Plan - Arncliffe - Carlton - AEO Approved	4	27/05/2019	PDF, DGN
ATP-UGL-EM-000140	Portion 4 - Controls Tables - Arncliffe-Carlton - ETCS Balise and LEU Tables - AEO Approved	4	27/05/2019	PDF, MSEXcel
ATP-UGL-EM-000163	Portion 4 - Controls Tables - Sydenham - ETCS Balise and LEU Tables - AEO Approved	3	27/05/2019	PDF, MSEXcel
ATP-UGL-EM-000164	Portion 4 - Signalling Plan - Sydenham (Excl) - Banksia (Excl) - AEO Approved	3	27/05/2019	PDF, DGN
ATP-UGL-EM-000165	Portion 4 - Supporting Documentation - Calculations - HSSR & Gradient Table - AEO Approved	3	27/05/2019	ZIP
ATP-UGL-EM-000166	Portion 4 - Site Certification Form - Sydenham - AEO Approved	5	27/05/2019	PDF, MSEXcel
ATP-UGL-EM-000173	Portion 4 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved*	4	27/05/2019	PDF, MSWord

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	TBA
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications – This Variation	\$305,353.50
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Revised Contract Sum	\$10,191,983.92

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation Order 13 - Portion 3 – NID balise groups re-numbering**

We refer to the above mentioned Contract and pursuant to clause 16.2, TfNSW issues Alstom a Variation Order to incorporate the Portion 3 modification pack for the re-numbering of the NID-balise groups and one balise group name change. The incorporation of these modifications is based on the documents listed below and included within the attachments.

Item	Document No	Revision	Title
1	ATP-UGL-EM-000114	5	Portion 3 – Control Tables - Oatley (EXCL) – Sutherland – Loftus JNC – AEO Approved & MOD 007
2	ATP-UGL-EM-000152	6	Portion 3 – Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO Approved & MOD 007
3	ATP-UGL-EM-000284	1	Portion 3 - Mod-007 – Signal Design Modification Form – Control Table Oatley (EXCL) – Sutherland - Loftus JNC

Where possible, Alstom shall utilise any unproductive resources to complete these Services without affecting the completion of other Contracts associated with the ATP Programme.

Alstom shall ensure the validated data which incorporates these modifications is submitted to TfNSW by 6 September 2019 and AEO approved CCB 4 submission pack by 27 September 2019.

Further, TfNSW requests Alstom to provide the following particulars within 10 business days of the date of this letter:

1. A high level assessment of Alstom's Services that are likely to be impacted as a result of revised documents within the attachments;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;



3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of amount of effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

Pursuant to clause 16.2 of the abovementioned contract, the Fee will be adjusted in accordance with clause 16.3 (b) of the contract.

Alstom is requested to acknowledge their acceptance of this Variation 13 in the space provided on the following page and return this Variation 13 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Lalitha Reddy should you require further clarification on this subject matter.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 04/07/2019

Attachments:

- Teambinder reference - ATP-UGL-EM-000114.5AEA
- Teambinder reference - ATP-UGL-EM-000152.6.AEA
- Teambinder reference - ATP-UGL-EM-000284.1.IFI

Variation 13 - Incorporate Area 4&5 D&C Contractor Portion 3 NID balise groups re-numbering is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 14 – Incorporate Area 4&5 D&C Contractor Portion 6
Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 15 November 2019 and TfNSW's previous letter and its associated attachments, reference 6308782 dated 19 July 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 6 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 6 and Signalling Design Package 6 documents previously issued under TfNSW's afore mentioned letter and as listed in Attachment A.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:

- a) The Fee is increased by \$438,571.85 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management	[REDACTED]		
Design Manager			
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			
Total ex GST			\$438,571.85

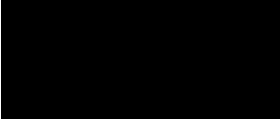
Table 1: Fee Breakdown



b) The Fee is revised to \$13,841,907.01 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal’s Representative
ATP Program

Dated:

Attachments:

- Attachment A – Variation 14 – Alstom ISD-17-6378 Data Design Areas 4 & 5 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications (DS# 6308782)
- Attachment B – Revised Fee

Variation 14 for Portion 6 Modifications to ISD-16-6049 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 6 and Signalling Design Package 6

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000094	Portion 6 – Signalling Plan – Allans Creek – AEO Approved	4	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000100	Portion 6 – Supporting Documentation – Gradient Tables – AEO Approved	2	18/07/2019	Xls
ATP-UGL-EM-000103	Portion 6 – Signalling Plan – Wollongong City – AEO	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000104	Portion 6 – Signalling Plan – Wollongong (EXCL) Unanderra (EXCL) – AEO Approved	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000105	Portion 6 – Signalling Plan – Port Kembla – AEO Approved	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000106	Portion 6 – Supporting Documentation – Calculations – HRSSA & HRTO – AEO Approved	3	18/07/2019	Xls
ATP-UGL-EM-000107	Portion 6 – Supporting Documentation – Calculations – BSTOP – AEO Approved	3	18/07/2019	Xls
ATP-UGL-EM-000110	Portion 6 – Site Certification Form – Allans Creek – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000115	Portion 6 – Site Certification Form – Wollongong – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000116	Portion 6 – Site Certification Form – Port Kembla North – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000117	Portion 6 – Controls Tables – Allans Creek ETCS Balise and LEU Tables – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000138	Portion 6 – Controls Tables – Port Kembla North ETCS Balise and LEU Tables – AEO Approved	3	18/07/2019	Xls & Pdf
ATP-UGL-EM-000139	Portion 6 – Controls Tables – Wollongong ETCS Balise and LEU Tables – AEO Approved	3	18/07/2019	Xls & Pdf
ATP-UGL-EM-000168	Portion 6 – Detailed Design Report – ATP Program Trackside Network Rollout Signalling Design – AEO Approved*	4	18/07/2019	Ms Word & Pdf

Note: * indicates Web GIS File is embedded within the Detailed Design Report.

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	Nil Cost
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	TBA
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	305,353.50
Variation 13: Portion 3 Modifications – Renumbering Balise Groups	Nil Cost
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications This Variation	\$438,571.85
Variation 15: Revision of Schedule of Rates	0.00
Variation 16: Unproductive Costs for Delayed Signalling Inputs	1,457,950.00
Variation 17: Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
Variation 18 : Extension of Time and Associated Project Management Costs	\$635,607.21
Variation 19: Non-productive time April-September 2019	\$439,660.00
Variation 20: PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
Variation 21: PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
Variation 22: PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
Variation 23: PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
Revised Fee	\$13,841,907.01

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 14– Incorporation Area 4&5 D&C Contractor Portion 6
Modifications**

Pursuant to clause 16.2 of the abovementioned contract, TfNSW issues variation 14 to Alstom to revise the Contract Materials for Portion 6 to align with the D&C Contractor's modifications to Signalling Plan Package 6 and Signalling Design Package 6 as described in the documents listed below.

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000094	Portion 6 - Signalling Plan - Allans Creek – AEO Approved	4	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000100	Portion 6 – Supporting Documentation – Gradient Tables - AEO Approved	2	18/07/2019	Xls
ATP-UGL-EM-000103	Portion 6 - Signalling Plan - Wollongong City – AEO	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000104	Portion 6 - Signalling Plan - Wollongong (EXCL) Unanderra (EXCL) – AEO Approved	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000105	Portion 6 - Signalling Plan - Port Kembla – AEO Approved	3	18/07/2019	Dgn & Pdf
ATP-UGL-EM-000106	Portion 6 – Supporting Documentation - Calculations - HRSSA & HRTO - AEO Approved	3	18/07/2019	Xls
ATP-UGL-EM-000107	Portion 6 – Supporting Documentation - Calculations - BSTOP - AEO Approved	3	18/07/2019	Xls
ATP-UGL-EM-000110	Portion 6 - Site Certification Form - Allans Creek – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000115	Portion 6 - Site Certification Form - Wollongong – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000116	Portion 6 - Site Certification Form - Port Kembla North - AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000117	Portion 6 - Controls Tables - Allans Creek ETCS Balise and LEU Tables – AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000138	Portion 6 - Controls Tables - Port Kembla North ETCS Balise and LEU Tables - AEO Approved	3	18/07/2019	Xls & Pdf
ATP-UGL-EM-000139	Portion 6 - Controls Tables - Wollongong ETCS Balise and LEU Tables – AEO Approved	3	18/07/2019	Xls & Pdf
ATP-UGL-EM-000168	Portion 6 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO Approved*	4	18/07/2019	Ms Word & Pdf

Note: * indicates Web GIS File is embedded within the Detailed Design Report.

These documents were submitted to Alstom via Team Binder on 18 July 2019 under document transmittal no. ATP-TFNSW-ALS-TX-000037. A copy of the transmittal is attached (refer Attachment 1).

Further, TfNSW requests Alstom to provide the following particulars within 10 business days of the completion of the GEO data process:

1. A high level assessment of Alstom's Services that are likely to be impacted as a result of revised documents within the attachments;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of amount of effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

Pursuant to clause 16.2 of the abovementioned contract, the Fee will be adjusted in accordance with clause 16.3 (b) of the contract.

Alstom is requested to acknowledge their acceptance of this Variation 14 in the space provided on the following page and return this Variation 14 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Lalitha Reddy should you require further clarification on this subject matter.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 19/07/2019

Attachments:
Document Transmittal ATP-TFNSW-ALS-TX-000037



Variation 14 - Incorporate Area 4&5 D&C Contractor Portion 6 Modifications – Receipt of revised Signalling Plan and Signalling Design Package is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____



Transport
for NSW

ATTACHMENT 1 - Document Transmittal ATP-TFNSW-ALS-TX-000037

Document Transmittal

Project Number: ATP
Project Title: Automatic Train Protection
Date: 18 July 2019 09:29 PM
Subject: Area 4 & 5 - Portion 6 - Signalling Detailed Design - AEO (SP, CT, SCF) - for Alstom
Reason for Issue: Issued For Information

Transmittal No: ATP-TFNSW-ALS-TX-000037

Message:

Hi Cameron

Please find attached the following **Area 4 & 5 Portion 6** 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.

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

Kind Regards,

Richie Lim
 Project Engineer – Trackside
 Automatic Train Protection (ATP)

T 02 9422 7979 |
 Level 2, 241 O’Riordan Street (The Gateway), Mascot NSW 2020
 E-mail: richie.lim@transport.nsw.gov.au

Transmitted to:

Company	Name
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	Alstom ATP Contract
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	
Alstom Transport Australia Pty Limited	TfNSW AMS Trackside

Transmitted cc:

Company	Name
Transport for NSW	David Hickson
Transport for NSW	Lalitha Ramalingareddy
Transport for NSW	Himesh Nair
Transport for NSW	Simmi Joseph
Transport for NSW	Sam Prebble
Transport for NSW	Richie Lim

[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	ATP-UGL-EM-000094	4	AEA	Portion 6 - Signalling Plan - Allans Creek - AEO Approved	D29100011	A45-P6
2	ATP-UGL-EM-000100	2	AEA	Portion 6 - Supporting Documentation - Gradient Tables - AEO Approved	Gradient Table	A45-P6
3	ATP-UGL-EM-000103	3	AEA	Portion 6 - Signalling Plan - Wollongong City - AEO	D28900011	A45-P6

				Approved		
4	ATP-UGL-EM-000104	3	AEA	Portion 6 - Signalling Plan - Wollongong (EXCL) Unanderra (EXCL) - AEO Approved	D29000011	A45-P6
5	ATP-UGL-EM-000105	3	AEA	Portion 6 - Signalling Plan - Port Kembla - AEO Approved	D29300011	A45-P6
6	ATP-UGL-EM-000106	3	AEA	Portion 6 - Supporting Documentation - Calculations - HRSSA & HRT0 - AEO Approved		A45-P6
7	ATP-UGL-EM-000107	3	AEA	Portion 6 - Supporting Documentation - Calculations - BSTOP - AEO Approved		A45-P6
8	ATP-UGL-EM-000110	4	AEA	Portion 6 - Site Certification Form - Allans Creek - AEO Approved	SCF291	A45-P6
9	ATP-UGL-EM-000115	4	AEA	Portion 6 - Site Certification Form - Wollongong - AEO Approved	SCF289	A45-P6
10	ATP-UGL-EM-000116	4	AEA	Portion 6 - Site Certification Form - Port Kembla North - AEO Approved	SCF292	A45-P6
11	ATP-UGL-EM-000117	4	AEA	Portion 6 - Controls Tables - Allans Creek ETCS Balise and LEU Tables - AEO Approved	ET291	A45-P6
12	ATP-UGL-EM-000138	3	AEA	Portion 6 - Controls Tables - Port Kembla North ETCS Balise and LEU Tables - AEO Approved	ET292	A45-P6
13	ATP-UGL-EM-000139	3	AEA	Portion 6 - Controls Tables - Wollongong ETCS Balise and LEU Tables - AEO Approved	ET289	A45-P6
14	ATP-UGL-EM-000168	4	AEA	Portion 6 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved	2017-RSA-140-DDR-06	A45-P6

Transmitted by: Richie Lim, Transport for NSW

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Approval for Variation 15– Revised Schedule of Rates**

Further to Alstom’s above referenced correspondence dated 3 July 2019 and pursuant to clause 16.2 of the abovementioned contract, TfNSW issues variation 15 to Alstom for the revised rates for the valuation of variations as described within Schedule 6 of the PSC. The updated rates for the valuation of variations is contained within table 1 below.

Role	Hourly Rate \$A (Excl. GST, inc.OH&P)	Capped Daily Rate \$A (Excl. GST, inc. OH&P)
Project Management which include all of the following roles at their relevant percentages: <ul style="list-style-type: none"> • Project Manager at %; • Contract Manager at %; • Planner at % • Quality Manager at % • Finance Controller at % • Project Assistant at % 		
Design Manager		
Data Preparation Engineer		
Data Validation Engineer		
Data Preparation Manager		
System Assurance		
Data Validation Manager		
Independent Professional Reviewer		
Data programming support		
Interface Manager		
NIT support		

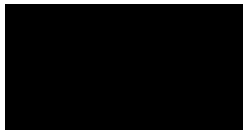
Table 1



Alstom is requested to acknowledge their acceptance of this Variation 15 in the space provided on the following page and return this Variation 15 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Sam Prebble should you require further clarification on this subject matter.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 15/08/2019



Variation 15 – Revised Schedule of Rates – Receipt of variation 15 is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

ATP Letter Ref: 6340233
Alstom Ref:

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

Attention: Mr

Dear

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Approval for Variation 16 – Unproductive time due to delayed detailed
Signalling Designs**

We refer to Alstom's above referenced proposal dated 16 July 2019. Further to this correspondence and pursuant to clause 16.3 (a) of the above-mentioned Deed, TfNSW issues this Variation 16 for the following:

1. Scope of Variation: the scope includes the additional costs for the unproductive time due to the delayed detailed Signalling Designs from D&C Contractor for the period July 2018 – March 2019.
2. Date for Completion: there is no change in the Date for Completion as a result of this Variation.
3. Contract Sum :
 - a) The value of this Variation order is \$1,457,950.00 excl GST as described in Table 1 below.

Role	Rate	Hours	Price
Data Engineers			
	Total		\$1,457,950.00

Table 1

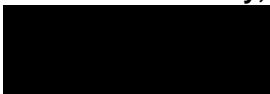
- b) The revised value of the Fee is \$11,649,942.08 as described in Attachment A.

Note: The rate of \$ per hour has been applied to these resources which is the agreed rate for the application of un-productive resource time.

Alstom is requested to acknowledge their acceptance of this Variation 16 in the space provided on the following page and return this Variation 16 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Sam Prebble should you require further clarification on this subject matter.

Yours sincerely,



**Himesh Nair
Principal's Representative
ATP Program**

Dated: 27/09/2019

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 16 – Unproductive time due to delayed inputs– Receipt of variation 16 is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	Nil Cost
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	TBA
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	611,579.82
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	305,353.50
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	Nil Cost
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Variation 15: Revision of Schedule of Rates	0.00
Variation 16: Unproductive Costs for Delayed Signalling Inputs – This Variation	1,457,950.00
Variation 17: Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
Revised Fee	\$11,649,942.08

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

Attention: Mr [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 17 – Incorporation Area 4&5 D&C Contractor Portion 8
 Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 16 November 2019 and TfNSW’s previous letters and their associated attachments, reference 6316964 dated 30 August 2019 and reference 6381698 dated 28 November 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 8 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 8 and Signalling Design Package 8 documents previously issued under TfNSW’s afore mentioned letters and as listed in Attachment A.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion under this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$268,858.08 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Extension
Project Management	[REDACTED]	[REDACTED]	[REDACTED]
Design Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional Reviewer	[REDACTED]	[REDACTED]	[REDACTED]
Baseline Geo Data Validation still to be performed			[REDACTED]
Total ex GST			\$268,858.08

Table 1: Fee Breakdown

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



b) The Fee is revised to \$14,569,627.77 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:
Attachment A – Variation 17 – Part 2 - Portion 8 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications (DS# 6381698)
Attachment B – Revised Fee

Variation 17 for Portion 8 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 8 and Signalling Design Package 8

Document No	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000108	Portion 8 - Signalling Plan - Otford INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	22/11/2019	Dgn & Pdf
ATP-UGL-EM-000141	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved	3	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000142	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved	4	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000143	Portion 8 - Signalling Plan - CoalCliff (EXCL) -Scarborough (INCL) - AEO Approved	3	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000144	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved	3	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000145	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRTO, Gradient Table - AEO Approved & MOD Gradient Output Table Version Date (21-11-2019)	4	26/08/2019	Xls
ATP-UGL-EM-000147	Portion 8 - Controls Tables - Otford - AEO Approved & MOD 044 - Version Date(21.11.2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000148	Portion 8 - Controls Tables - Helensburgh - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000149	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000150	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 044 - Version Date (21.11.2019)	4	21/11/2019	Xls & Pdf
ATP-UGL-EM-000151	Portion 8 - Controls Tables - Scarborough - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000153	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved	4	26/08/2019	Xls & Pdf
ATP-UGL-EM-000154	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000156	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000157	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 044 & 047 - Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000158	Portion 8 - Site Certification Form - Scarborough - AEO Approved	4	26/08/2019	Xls & Pdf
ATP-UGL-EM-000299	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 044 & 047	9	22/11/2019	Ms Word & Pdf
ATP-UGL-EM-000302	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliffe, Scarborough - AEO Approved	2	28/08/2019	Dgn & Pdf

Attachment B - Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications – This Variation	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07

Variation Number	Description	Value
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBA
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
Contract Revised Sum		\$14,569,627.77

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 17 – Part 2 Portion 8 – Incorporation Area 4&5 D&C
Contractor Portion 8 Modifications**

Pursuant to clause 16.2 of the abovementioned contract and TfNSW's previous letter referenced 6316964 dated 30 August 2019, TfNSW issues variation 17 part 2 to Alstom to revise the Contract Materials for Portion 8 to align with the revised D&C Contractor's modifications to the latest Signalling Plan Package 8 and Signalling Design Package 8 as described in the documents listed below (refer Attachment 1).

Document No	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000108	Portion 8 - Signalling Plan - Otford INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	22/11/2019	Dgn & Pdf
ATP-UGL-EM-000141	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved	3	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000142	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved	4	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000143	Portion 8 - Signalling Plan - CoalCliff (EXCL) -Scarborough (INCL) - AEO Approved	3	26/08/2019	Dgn & Pdf
ATP-UGL-EM-000144	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved	3	26/08/2019	Dgn & Pdf

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

ATP-UGL-EM-000145	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRTO, Gradient Table - AEO Approved & MOD Gradient Output Table Version Date (21-11-2019)	4	26/08/2019	Xls
ATP-UGL-EM-000147	Portion 8 - Controls Tables - Otford - AEO Approved & MOD 044 - Version Date(21.11.2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000148	Portion 8 - Controls Tables - Helensburgh - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000149	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000150	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 044 - Version Date (21.11.2019)	4	21/11/2019	Xls & Pdf
ATP-UGL-EM-000151	Portion 8 - Controls Tables - Scarborough - AEO Approved	3	26/08/2019	Xls & Pdf
ATP-UGL-EM-000153	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved	4	26/08/2019	Xls & Pdf
ATP-UGL-EM-000154	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000156	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000157	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 044 & 047 - Version Date (21-11-2019)	5	21/11/2019	Xls & Pdf
ATP-UGL-EM-000158	Portion 8 - Site Certification Form - Scarborough - AEO Approved	4	26/08/2019	Xls & Pdf
ATP-UGL-EM-000299	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 044 & 047	9	22/11/2019	Ms Word & Pdf
ATP-UGL-EM-000302	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliffe, Scarborough - AEO Approved	2	28/08/2019	Dgn & Pdf

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

Note: * indicates Web GIS file is embedded within the Detailed Design Report.

These documents were submitted to Alstom via Team Binder on 25 November 2019 under document transmittal no. ATP-TFNSW-ALS-TX-000069. A copy of the transmittal is attached (refer Attachment 1).

Further, TfNSW requests Alstom to provide the following particulars within 10 business days of the completion of the GEO data process:

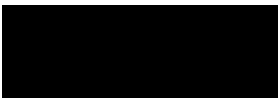
1. A high level assessment of Alstom's Services that are likely to be impacted as a result of revised documents within the attachments;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of amount of effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

Pursuant to clause 16.2 of the abovementioned contract, the Fee will be adjusted in accordance with clause 16.3 (b) of the contract.

Alstom is requested to acknowledge their acceptance of this Variation 17 Part 2 in the space provided on the following page and return this Variation 17 Part 2 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Lalitha Reddy for further clarification on this subject matter.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 28/11/2019

Attachments:
Document Transmittal ATP-TFNSW-ALS-TX-000069

Document Transmittal



Transport
for NSW

Project Number: ATP **Transmittal No:** ATP-TFNSW-ALS-TX-000069
Project Title: Automatic Train Protection
Date: 25 November 2019 11:55 AM
Subject: Area 4 & 5 - Portion 8 - Signalling Detailed Design - AEO (SP, CT, SCF, CBs) - including MODs (Version Date 21.11.2019) - for Alstom
Reason for Issue: Issued For Information

Message:

Hi Cameron,

Please find attached the latest suite of Portion 8 AEO designs including MODs for your reference/ appropriate action.

For absolute completeness, the various modifications are described within the design report with the AEO Approved date of 21/11/2019.

These inputs will be officialised shortly.

In the meantime, do not hesitate to contact me (or Lalitha) if you have any questions.

Kind Regards,

Richie Lim
 Project Engineer – Trackside
 Automatic Train Protection (ATP)

T 02 9422 7979 |
 Level 2, 241 O’Riordan Street (The Gateway), Mascot NSW 2020
 E-mail: richie.lim@transport.nsw.gov.au

Transmitted to:

Company	Name
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]
Alstom Transport Australia Pty Limited	[REDACTED]

Transmitted cc:

Company	Name
Transport for NSW	Lalitha Ramalingareddy

Transport for NSW	Richie Lim
Transport for NSW	Yik Yen Chong
Transport for NSW	David Hickson
Transport for NSW	Sam Prebble
Transport for NSW	Simmi Joseph
Transport for NSW	Himesh Nair

[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	ATP-UGL-EM-000108	5	AEA	Portion 8 - Signalling Plan - Otord INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)	D2820011	A45-P8
2	ATP-UGL-EM-000141	3	AEA	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved	D2810011	A45-P8
3	ATP-UGL-EM-000142	4	AEA	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved	D2830011	A45-P8
4	ATP-UGL-EM-000143	3	AEA	Portion 8 - Signalling Plan - CoalCliff (EXCL) - Scarborough (INCL) - AEO Approved	D2840011	A45-P8
5	ATP-UGL-EM-000144	3	AEA	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved	D2800011	A45-P8
6	ATP-UGL-EM-000145	4	AEA	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRTO, Gradient Table - AEO Approved & MOD Gradient Output Table Version Date (21-11-2019)		A45-P8
7	ATP-UGL-EM-000147	5	AEA	Portion 8 - Controls Tables - OTFORD - AEO Approved & MOD 044 - Version Date(21.11.2019)	ET282	A45-P8
8	ATP-UGL-EM-000148	3	AEA	Portion 8 - Controls Tables - Helensburgh - AEO Approved	ET280	A45-P8
9	ATP-UGL-EM-000149	3	AEA	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved	ET281	A45-P8

10	ATP-UGL-EM-000150	4	AEA	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 044 - Version Date (21.11.2019)	ET283	A45-P8
11	ATP-UGL-EM-000151	3	AEA	Portion 8 - Controls Tables - Scarborough - AEO Approved	ET284	A45-P8
12	ATP-UGL-EM-000153	4	AEA	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved	SCF280	A45-P8
13	ATP-UGL-EM-000154	5	AEA	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)	SCF281	A45-P8
14	ATP-UGL-EM-000156	5	AEA	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)	SCF282	A45-P8
15	ATP-UGL-EM-000157	5	AEA	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 044 & 047 - Version Date (21-11-2019)	SCF283	A45-P8
16	ATP-UGL-EM-000158	4	AEA	Portion 8 - Site Certification Form - Scarborough - AEO Approved	SCF284	A45-P8
17	ATP-UGL-EM-000299	9	AEA	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 044 & 047	2017-RSA-140-DDR-08	A45-P8
18	ATP-UGL-EM-000302	2	AEA	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliff, Scarborough - AEO Approved		A45-P8

Transmitted by: Richie Lim, Transport for NSW

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 18 – Extension of Time and Associated Project Management
 Costs**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 22 July 2019.

Further to this correspondence and pursuant to Clause 18.4 of the abovementioned Agreement, TfNSW hereby issues an extension of time to the Date for Completion as detailed in table 1 below:

Portion	Original Date for Completion	Revised Date for Completion
1	[REDACTED]	[REDACTED]
2	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]
6	[REDACTED]	[REDACTED]
7	[REDACTED]	[REDACTED]
8	[REDACTED]	[REDACTED]
9	[REDACTED]	[REDACTED]

Table 1

The Fee is increased by \$635,607.21 excl GST for the project management costs associated with this extension of time as described in Table 2 below:

Role	Daily Rate	Business Days	Price
Project Management from [REDACTED]	[REDACTED]	[REDACTED]	\$635,607.21
Total ex GST			\$635,607.21

Table 2

The Fee is revised to \$12,285,549.29 as described in Table 3 below:

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

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	Nil Cost
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	TBA
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	611,579.82
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	305,353.50
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	Nil Cost
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Variation 15: Revision of Schedule of Rates	0.00
Variation 16: Unproductive Costs for Delayed Signalling Inputs	1,457,950.00
Variation 17: Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
Variation 18 : Extension of Time and Associated Project Management Costs This Variation	\$635,607.21
Revised Fee	\$12,285,549.29

Table 3: Revised Fee

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 03/10/2019



Variation 18 for the extension of time to the Date for Completion and associated project management costs to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____



ATP Letter Ref: 6353620

Alstom Ref: [REDACTED]

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)**
Subject: Approval for Variation 19 – Unproductive time due to issues within the detailed Signalling Designs [REDACTED]

TfNSW makes reference to the following:

1. TfNSW's letter ref. 6236788 dated 08 March 2019, wherein TfNSW notified Alstom of the revised Design Due Dates; and
2. Alstom's letter referenced above wherein Alstom submitted a claim, for the extra costs incurred by Alstom during the months of [REDACTED] (inclusive) resulting from issues with the Signalling Design.

Further to the above, TfNSW acknowledges that Alstom has incurred extra costs associated with the Design Personnel due to the issues encountered within the Signalling Design.

Pursuant to clause 16.3(a) of the above-mentioned Agreement, TfNSW issues this Variation 19 to compensate Alstom for these additional costs associated with the Design Personnel incurred in the period [REDACTED] (refer table 1) and adjusts the Fee by a lump sum amount of \$439,660.00

Month	Rate	Unproductive Man-hours	Amount
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total		[REDACTED]	\$439,660.00

Table 1

Note: The rate of [REDACTED] has been applied to these resources which is the agreed rate for the application of un-productive resource time.

The Fee is adjusted to a total value of \$12,725,201.13 as detailed in Attachment A.



Alstom is requested to acknowledge their acceptance of this Variation 19 in the space provided below and return this Variation 19 in its entirety to Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Please contact Sam Prebble should you require further clarification on this subject matter.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:
Attachment A – Revised Fee

Variation 19 – Unproductive time due to delayed inputs– Receipt of variation 19 is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Description	Value (excl GST)
Original Contract Sum	6,558,725.09
Variation 1: Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
Variation 2: Extension of co-location lease	279,029.00
Variation 3: NIF ASDO Initial Services	0.00
Variation 4: Provision of data design training for additional ST staff	93,846.95
Variation 5: Implementation of Signalling Design Modifications	TBA
Variation 6: Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	668,451.12
Variation 7 : Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
Variation 8: Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	611,571.66
Variation 9 : Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	368,099.08
Variation 10: Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	758,673.18
Variation 11 : Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	548,234.34
Variation 12: Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	305,353.50
Variation 13: Portion 3 Modifications - Renumbering Balise Groups	0.00
Variation 14: Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
Variation 15: Revision of Schedule of Rates	0.00
Variation 16: Unproductive Costs for Delayed Signalling Inputs	1,457,950.00
Variation 17: Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
Variation 18 : Extension of Time and Associated Project Management Costs	635,607.21
Variation 19: Unproductive Costs for Delayed Signalling Inputs (April-September 2019) – This Variation	439,660.00
Revised Fee	\$12,725,201.13

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 20 – Incorporate Area 4&5 D&C Contractor Portion 2
 Modifications**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 15 November 2019 and TfNSW’s previous letter reference 6349149 dated 25 September 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the variation: incorporation of Portion 2 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 2 and Signalling Design Package 2 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this variation.
3. Contract Sum:
 - a) The Fee is increased by \$105,706.13 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Selling Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
			\$105,706.13

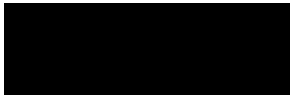
Table 1: Fee breakdown



b) The Fee is revised to \$12,830,907.26 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 as listed therein (DS#6349149)

Attachment B – Revised Fee

Variation 20 for Portion 2 Modifications to ISD-17-6378 AMS Area 4 and Area 5
Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signaling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000043	Portion 2 - Signalling Plan - Allawah (INCL) - Oatley (INC) (EXCL) – AEO approved	4	12/09/2019	Dgn & Pdf
ATP-UGL-EM-000044	Portion 2 - Site Certification Form - Hurstville - Sutherland – AEO Approved with MOD 005 & 017 version date 12.09.2019	7	12/09/2019	MS Excel & Pdf
ATP-UGL-EM-000090	Portion 2 - Supporting Documentation - Calculations - HROL, HSSR, HRTO, Window of Expectation, Gradient Out put Tables – AEO approved & MOD 017	5	12/09/2019	MS Excel
ATP-UGL-EM-000092	Portion 2 - Controls Tables - Hurstville - Sutherland - ETCS Balise and LEU Tables – AEO Approved with MOD 005 & 017 Version Date 12.09.2019	6	12/09/2019	MS Excel & PDF
ATP-UGL-EM-000155	Portion 2 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO Approved with MOD 005 & 017	8	12/09/2019	MSWord & Pdf
ATP-UGL-EM-000210	Portion 2 - Circuit Book CB010 Hurstville to Sutherland – AEO Approved with MOD 001 & Redline Markup	5	12/09/2019	Dgn & PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications – This Variation	\$105,706.13
Contract Revised Sum		\$12,830,907.26

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 21 – Incorporate Area 4&5 D&C Contractor Portion 5
 Modifications – Part 2**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 15 November 2019 and TfNSW’s previous letter reference 6366511 dated 29 October 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 5 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 5 and Signalling Design Package 5 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this variation.
3. Contract Sum:
 - a) The Fee is increased by \$307,088.96 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Selling Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
			\$307,088.96

Table 1: Fee breakdown



b) The Fee is revised to \$13,137,996.22 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5 as listed therein (DS#6366511)

Attachment B – Revised Fee

Variation 21 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5
Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000021	Portion 5 - Signalling Plan - Unanderra Signalling plan - AEO Approved	3	26/04/2019	PDN & DGN
ATP-UGL-EM-000022	Portion 5 - Signalling Plan - Dapto to Kiama - AEO Approved & MOD Update (Version Date 18.10.2019)	4	18/10/2019	PDN & DGN
ATP-UGL-EM-000023	Portion 5 - Controls Tables - Unanderra ETCS Balise and LEU Tables - AEO Approved & MOD 28,40,42 Update (Version Date 18.10.2019)	5	18/10/2019	PDF & XLS
ATP-UGL-EM-000024	Portion 5 - Site Certification Form - Unanderra - AEO Approved & MOD 40 Update (Version Date 18.10.2019)	5	18/10/2019	PDF & XLS
ATP-UGL-EM-000025	Portion 5 - Site Certification Form - Albion Park - AEO Approved & MOD 40 Update (Version Date 18.10.2019)	6	18/10/2019	PDF & XLS
ATP-UGL-EM-000026	Portion 5 - Site Certification Form - Dunmore - AEO Approved	4	29/04/2019	PDF & XLS
ATP-UGL-EM-000027	Portion 5 - Site Certification Form - Bombo - AEO Approved & MOD 34&40 Update (Version Date 18.10.2019)	5	18/10/2019	PDF & XLS
ATP-UGL-EM-000028	Portion 5 - Site Certification Form - Kiama - AEO Approved & MOD 40 Update (Version Date 18.10.2019)	6	18/10/2019	PDF & XLS
ATP-UGL-EM-000029	Portion 5 - Site Certification Form - Dapto -AEO Approved & MOD 14&40 Update (Version Date 18.10.2019)	6	18/10/2019	PDF & XLS
ATP-UGL-EM-000030	Portion 5 - Controls Tables - Albion Park ETCS Balise and LEU Tables - AEO Approved & MOD 40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000031	Portion 5 - Controls Tables - Dunmore ETCS Balise and LEU Tables - AEO Approved & MOD 40, 42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000032	Portion 5 - Controls Tables - Bombo ETCS Balise and LEU Tables - AEO Approved & MOD 14,40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000033	Portion 5 - Controls Tables - Kiama ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000034	Portion 5 - Controls Tables - Dapto ETCS Balise and LEU Tables -AEO Approved & MOD 14,28,36,39,40,42 Update (Version Date 18.10.2019)	7	18/10/2019	PDF & XLS

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000091	Portion 5 - Supporting Documentation - Calculations - Unanderra Kiama, Bombo AEO Approved & MOD Update (Version Date 18.10.2019)	4	18/10/2019	XLS
ATP-UGL-EM-000121	Portion 5 - Supporting Documentation - Calculations - Dunmore, Albion Park , Dapto - AEO Approved & MOD Update (Version Date 18.10.2019)	5	18/10/2019	XLS
ATP-UGL-EM-000222	Portion 5 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update (Version Date 18.10.2019)	11	21/10/2019	PDF & MS Word
ATP-UGL-EM-000233	Portion 5 - Circuit Book Unanderra, Albion Park, Dunmore, Bombo, Kiama, Dapto - AEO Approved & MOD 48 Update (Bombo CB297) Version Date 18.10.2019	4	18/10/2019	XLS
ATP-UGL-EM-000239	Portion 5 - Supporting Documentation - Gradient Table - AEO Approved & MOD Update (Version Date 18.10.2019)	6	18/10/2019	MS Word & XLS
ATP-UGL-EM-000248	Portion 5 - ATP Signalling Power Distribution Report	2	05/07/2019	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications – This Variation	\$307,088.96
Contract Revised Sum		\$13,137,996.22

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 22 – Incorporate Area 4&5 D&C Contractor Portion 1
 Modifications**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 15 November 2019 and TfNSW’s previous letter reference 6355036 dated 02 October 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 1 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 1 and Signalling Design Package 1 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$92,733.81 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Selling Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
			\$92,733.81

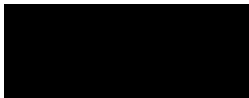
Table 1: Fee breakdown



b) The Fee is revised to \$13,230,730.03 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 1 and Signalling Design Package 1 as listed therein (DS #6355036)

Attachment B – Revised Fee

Variation 22 for Portion 1 Modifications to ISD-17-6378 AMS Area 4 and Area 5
Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signaling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000017	Portion 1 - Signalling Plan - Sutherland (Excl) - Cronulla (INCL) - AEO Approved	3	30/04/2019	DGN & PDF
ATP-UGL-EM-000018	Portion 1 - Controls Tables – Cronulla ETCS Balise and LEU Tables – AEO Approved & MOD 11 & 21 (Version Date 26/09/2019)	5	26/09/2019	XLS & PDF
ATP-UGL-EM-000019	Portion 1 - Site Certification Form - Cronulla - AEO Approved & MOD 11 & 21 (Version Date 26/09/2019)	5	26/09/2019	XLS & PDF
ATP-UGL-EM-000020	Portion 1 - Site Certification Form - Sutherland - Cronulla - AEO Approved	4	30/04/2019	XLS & PDF
ATP-UGL-EM-000035	Portion 1 - Controls Tables - Sutherland (x) - Cronulla (x) ETCS Balise and LEU Tables – AEO Approved & MOD 11 & 21 (Version Date 26/09/2019)	4	26/09/2019	XLS & PDF
ATP-UGL-EM-000089	Portion 1 - Supporting Documentation - Calculations - BSTOP – Combined Gradient - DNCR - UPCR – Gradient output Table - AEO Approved	4	30/04/2019	XLS
ATP-UGL-EM-000133	Portion 1 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO Approved & MOD 11 & 21	8	27/09/2019	PDF & MS WORD
ATP-UGL-EM-000232	Portion 1 - Circuit Book CB66A CA, CB66C CA3, CB66C CAS Location, CB067 - AEO Approved & MOD 02	3	23/05/2019	DGN & PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications – This Variation	\$92,733.81
Contract Revised Sum		\$13,230,730.03

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 23 – Incorporate Area 4&5 D&C Contractor Portion 3
 Modifications**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 15 November 2019 and TfNSW’s previous letter reference 6357978 dated 10 October 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 3 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 3 and Signalling Design Package 3 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum:
 - a) The Fee is increased by \$172,605.13 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rate	Hours	Selling Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
			\$172,605.13

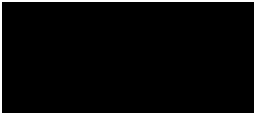
Table 1: Fee breakdown



b) The Fee is revised to \$13,403,335.16 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



**Himesh Nair
Principal's Representative
ATP Program**

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3 as listed therein (DS #6357978)

Attachment B – Revised Fee

Variation 23 for Portion 3 Modifications to ISD-17-6378 AMS Area 4 and Area 5
Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000036	Portion 3 - Signalling Plan - Oatley to Engadine (EXCL) - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, DGN
ATP-UGL-EM-000095	Portion 3 - Signalling Plan - Engadine to Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	4	07/10/2019	PDF, DGN
ATP-UGL-EM-000096	Portion 3 - Controls Tables – Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000097	Portion 3 - Site Certification Form – Oatley (excl) - Sutherland - Loftus – AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000098	Portion 3 - Site Certification Form – Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000099	Portion 3 - Site Certification Form - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	7	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000101	Portion 3 - Supporting Documentation - Calculations - HROL, HSSR, HRTO - AEO Approved MOD Update – Version Date 010.10.2019	6	10/10/2019	ZIP
ATP-UGL-EM-000114	Portion 3 - Controls Tables – Oatley (EXCL) - Sutherland - Loftus JNC – AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000118	Portion 3 - Supporting Documentation - Gradient Tables - AEO Approved & MOD Update - Version Date 10.10.2019	5	10/10/2019	MS Excel
ATP-UGL-EM-000127	Portion 3 - Controls Tables - Waterfall -10 AEO Approved & MOD Update – Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000152	Portion 3 - Detailed Design Report – ATP Program Trackside Network Rollout Signalling Design - AEO Approved & P3 MOD update	10	10/10/2019	PDF, MS Word
ATP-UGL-EM-000242	Portion 3 - Circuit Book - Sutherland - Loftus, Waterfall, Loftus Junction – AEO Approved & MOD 009 (Waterfall CB069)	3	01/07/2019	PDF, DGN

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	TBA
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications – This Variation	\$172,605,07
Contract Revised Sum		\$ 13,403,335.16

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 24 – Incorporate Area 4&5 D&C Contractor Portion 5
 Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 26 March 2020 and TfNSW’s previous letter reference 6433025 dated 12 March 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 5 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 5 and Signalling Design Package 5 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion under this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$65,623.12 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$65,623.12

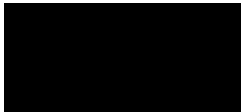
Table 1: Fee Breakdown



b) The Fee is revised to \$14,692,674.26 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5 as listed therein DS #6433025

Attachment B – Revised Fee

Variation 24 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5

Document No.	Title	Version	AEO Approved Date	Format
	(Version Date 18.10.2019)			XLS
ATP-UGL-EM-000030	Portion 5 - Controls Tables - Albion Park ETCS Balise and LEU Tables - AEO Approved & MOD 40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000031	Portion 5 - Controls Tables - Dunmore ETCS Balise and LEU Tables - AEO Approved & MOD 40, 42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000032	Portion 5 - Controls Tables - Bombo ETCS Balise and LEU Tables - AEO Approved & MOD 14,40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000033	Portion 5 - Controls Tables - Kiama ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000034	Portion 5 - Controls Tables - Dapto ETCS Balise and LEU Tables - AEO Approved & MOD 067 Update (Version Date 28.02.2020)	11	28/02/2020	PDF & XLS
ATP-UGL-EM-000091	Portion 5 - Supporting Documentation - Calculations - Unanderra Kiama, Bombo AEO Approved & MOD Update (Version Date 18.10.2019)	4	21/10/2019	XLS
ATP-UGL-EM-0000121	Portion 5 - Supporting Documentation - Calculations - Dunmore, Albion Park , Dapto - AEO Approved & MOD Update (Version Date 18.10.2019)	5	18/10/2019	XLS
ATP-UGL-EM-0000222	Portion 5 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 065, 067 (Version Date 02-03-2020)	14	02/03/2020	PDF & MS WORD
ATP-UGL-EM-0000233	Portion 5 - Circuit Book Unanderra, Albion Park, Dunmore, Bombo, Kiama, Dapto - AEO Approved & MOD 063 Update (Unanderra CB073) Version Date 05.02.2020	5	05/02/2020	XLS
ATP-UGL-EM-0000239	Portion 5 - Supporting Documentation - Gradient Table - AEO Approved & MOD Update (Version Date 18.10.2019)	6	18/10/2019	MS WORD XLS
ATP-UGL-EM-0000248	Portion 5 - ATP Signalling Power Distribution Report	2	05/07/2019	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571,85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605,07

Variation Number	Description	Value
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$88,012.70
26	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$133,098.77
27	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	AMS 4-5 Variation Proposal – Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
Contract Revised Sum		\$14,692,674.26

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 25– PART 3 -Incorporate Area 4&5 D&C Contractor Portion 3
Modifications aligned to Network Configuration Changes**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 28 February 2020 and TfNSW's previous letter reference 6415047 dated 24 January 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 3 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 3 and Signalling Design Package 3 documents detailed in Attachment A and previously issued under TfNSW's afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion and its associated costs will be dealt with separately.
3. Contract Sum:
 - a) The Fee is increased by \$88,012.71 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional Reviewer	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Design Manager	[REDACTED]	[REDACTED]	[REDACTED]
Total ex GST			\$124,719.56

Role	Hourly Rates	Hours	Price
Reduction due to DR Sheet Defect			
Data Design 5 x BGs			
CCB4 Pack			
Sub Total			\$36,706.85
Total (\$124,719.56 - \$36,706.85) Excl GST			
			\$88,012.71

Table 1: Fee Breakdown

b) The Fee is revised to \$13,929,919.72 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



**Himesh Nair
Principal's Representative
ATP Program**

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3 as listed therein

Attachment B – Revised Fee

Variation 25 for Portion 3 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000036	Portion 3 - Signalling Plan - Oatley to Engadine (EXCL) - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, DGN
ATP-UGL-EM-000095	Portion 3 - Signalling Plan - Engadine to Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	4	07/10/2019	PDF, DGN
ATP-UGL-EM-000096	Portion 3 - Controls Tables - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000097	Portion 3 - Site Certification Form - Oatley (excl) - Sutherland - Loftus - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000098	Portion 3 - Site Certification Form - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000099	Portion 3 - Site Certification Form - Waterfall - AEO Approved & MOD Update 060 - (Version Date 15.01.2020)	8	15/01/2020	PDF, MS Excel
ATP-UGL-EM-000101	Portion 3 - Supporting Documentation - Calculations - HROL, HSSR, HRT0 - AEO Approved MOD Update - Version Date 26.11.2019	7	26/11/2019	ZIP
ATP-UGL-EM-000114	Portion 3 - Controls Tables - Oatley (EXCL) - Sutherland - Loftus JNC - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, MS Excel
ATP-UGL-EM-000118	Portion 3 - Supporting Documentation - Gradient Output Tables - AEO Approved & MOD Update 055 - Version Date 26.11.2019	6	10/10/2019	MS Excel
ATP-UGL-EM-000127	Portion 3 - Controls Table-Waterfall - AEO Approved & MOD Update 055 - Version Date 26-11-2019	7	26/11/2019	PDF, MS Excel

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000152	Portion 3 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 060	12	19/02/2020	PDF, MSWord
ATP-UGL-EM-000242	Portion 3 - Circuit Book - Sutherland -Loftus, Waterfall, Loftus Junction - AEO Approved & MOD 009 (Waterfall CB069)	4	01/07/2019	PDF, DGN
ATP-UGL-EM-000274	Portion 3 - ATP Signalling Power Distribution Report -	1	31/05/2019	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605,13
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	TBA
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications aligned to Network Configuration Changes – This Variation	\$88,012.71
Contract Revised Sum		\$13,929,919.72

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 26 – Incorporate Area 4&5 D&C Contractor Portion 7
 Modifications**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 12 February 2020 and TfNSW’s previous letter reference 6377208 dated 17 November 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 7 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 7 and Signalling Design Package 7 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this variation. Any adjustment to the Date for Completion as a result of this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$133,098.77 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$133,098.77

Table 1: Fee breakdown



b) The Fee is revised to \$14,063,018.43 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 7 and Signalling Design Package 7 as listed therein (DS #6377208

Attachment B – Revised Fee

Variation 26 for Portion 7 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 7 and Signalling Design Package 7

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000102	Portion 7 - Signalling Plan - Corrimal - AEO Approved & MOD 029 - Version Date (12.11.2019)	5	12/11/19	DGN
ATP-UGL-EM-000112	Portion 7 - Supporting Documentation - Calculations - AEO Approved & MOD Update - Version Date (12.11.2019)	5	12/11/19	ZIP
ATP-UGL-EM-000113	Portion 7 - Supporting Documentation - Gradient Table - AEO Approved & MOD Update	5	12/11/19	Excel
ATP-UGL-EM-000120	Portion 7 - Controls Tables - Corrimal - AEO Approved & MOD 026,029,052,054 Version date (12.11.2019)	5	12/11/19	PDF, Excel
ATP-UGL-EM-000129	Portion 7 - Site Certification Form - Corrimal - AEO Approved & MOD 029 - Version Date(12.11.2019)	5	12/11/19	PDF, Excel
ATP-UGL-EM-000130	Portion 7 - Signalling Plan - Thirroul - AEO Approved & MOD 024,029,046 - Version Date (12.11.2019)	4	12/11/19	PDF, DGN
ATP-UGL-EM-000131	Portion 7 - Site Certification Form - Thirroul - AEO Approved & MOD029 & 046 - Version Date (12-11-2019)	5	12/11/19	PDF, Excel
ATP-UGL-EM-000132	Portion 7 - Controls Tables - Thirroul - AEO Approved & MOD 026,029,035,046,054 Version date (12.11.2019)	5	12/11/19	PDF, Excel
ATP-UGL-EM-000169	Portion 7 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design -AEO Approved & MOD Update	10	14/11/19	PDF, Word
ATP-UGL-EM-000270	Portion 7 - Circuit Book - Thirroul & Corrimal - AEO Approved & MOD 024,046,050 (CB286 Thirroul) Version Date 12.11.2019	4	12/11/19	PDF, DGN
ATP-UGL-EM-000345	Portion 7 - ATP Signalling Power Distribution Report	1	07/11/19	PDF, Word
ATP-UGL-EM-000346	Portion 7 - Site Certification Form - Thirroul - AEO Approved & MOD029 & 046 - Version Date - (12-11-2019)	5	12/11/19	PDF, Excel

Note: * indicates Web GIS File is embedded within the Detailed Design Report.

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.86
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBC
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$88,012.70
26	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
Contract Revised Sum		14,063,018.43

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 27 – Incorporate Area 4&5 D&C Contractor Portion 8
Modifications**

We refer to Alstom Transport Australia Pty Limited (Alstom’s) above referenced letter dated 12 February 2020 and TfNSW’s previous letter reference 6381698 dated 28 November 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 8 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 8 and Signalling Design Package 8 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion as a result of this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$51,648.42 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$51,648.42

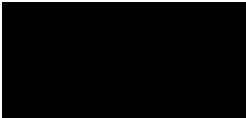
Table 1: Fee breakdown



b) The Fee is revised to \$14,114,666.85 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Mr. Matthew Cassidy via email to Matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 8 and Signalling Design Package 8 as listed therein (DS #6381698

Attachment B – Revised Fee

Variation 27 for Portion 8 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 8 and Signalling Design Package 8

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000108	Portion 8 - Signalling Plan - Otford INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	22/11/2019	DGN & PDF
ATP-UGL-EM-000141	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved	3	26/08/2019	DGN & PDF
ATP-UGL-EM-000142	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved	4	26/08/2019	DGN & PDF
ATP-UGL-EM-000143	Portion 8 - Signalling Plan - CoalCliff (EXCL) -Scarborough (INCL) - AEO Approved	3	26/08/2019	DGN & PDF
ATP-UGL-EM-000144	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved	3	26/08/2019	DGN & PDF
ATP-UGL-EM-000145	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRT0, Gradient Table - AEO Approved & MOD Gradient Output Table Version Date (21-11-2019)	4	26/08/2019	Xls
ATP-UGL-EM-000147	Portion 8 - Controls Tables - Otford - AEO Approved & MOD 044 - Version Date(21.11.2019)	5	21/11/2019	Xls & PDF
ATP-UGL-EM-000148	Portion 8 - Controls Tables - Helensburgh - AEO Approved	3	26/08/2019	Xls & PDF
ATP-UGL-EM-000149	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved4	3	26/08/2019	Xls & PDF
ATP-UGL-EM-000150	Portion 8 - 5Controls Tables - Coalcliff - AE3O Approved & MOD 044 - Version 3Date (21.11.2019)	4	21/11/2019	Xls & PDF
ATP-UGL-EM-000151	Portion 8 - Con4trols Tables - Scarborough - A3EO Approved	3	26/08/2019	Xls & PDF
ATP-UGL-EM-000153	Portion 8 - Site Ce4rtification Form - Helensburgh CB2805 - AEO Approved	4	26/08/2019	Xls & PDF
ATP-UGL-EM-000154	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)	5	21/11/2019	Xls & PDF
ATP-UGL-EM-000156	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)	5	21/11/2019	Xls & PDF
ATP-UGL-EM-000157	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 044 & 047 - Version Date (21-11-2019)	5	21/11/2019	Xls & PDF

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000158	Portion 8 - Site Certification Form - Scarborough - AEO Approved	4	26/08/2019	Xls & PDF
ATP-UGL-EM-000299	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 044 & 047	9	22/11/2019	MS Word & PDF
ATP-UGL-EM-000302	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliffe, Scarborough - AEO Approved	2	28/08/2019	DGN & PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07

24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBA
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$88,012.70
26	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$133,098.77
27	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications – This Variation	\$51,648.42
Contract Revised Sum		\$14,114,666.85

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 28 – Incorporate Area 4&5 D&C Contractor Portion 6
Modifications**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 28 February 2020 and TfNSW’s previous letter reference 6381309 dated 28 November 2019.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 6 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 6 and Signalling Design Package 6 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion under this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$186,102.79 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$186,102.79

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



Table 1: Fee Breakdown

- b) The Fee is revised to \$14,300,769.64 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



**Himesh Nair
Principal's Representative
ATP Program**

Dated:

Attachments:

Attachment A - Revised Signalling Plan Package 6 and Signalling Design Package 6 as listed therein DS #6439370

Attachment B – Revised Fee

Variation 28 for Portion 6 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 6

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000094	Portion 6 - Signalling Plan - Allans Creek – AEO Approved	4	18/7/2019	Dgn & Pdf
ATP-UGL-EM-000100	Portion 6 - Supporting Documentation - Gradient Tables & Combined Calculations' - AEO Approved & MOD (Version Date 18-11-2019)	3	18/7/2019	Xls
ATP-UGL-EM-000103	Portion 6 - Signalling Plan -Wollongong City - AEO Approved & MOD 030,032,045, 051 (Version Date 18-11-2019)	4	18/11/2019	Dgn & Pdf
ATP-UGL-EM-000104	Portion 6 - Signalling Plan -Wollongong (EXCL) Unanderra (EXCL) - AEO Approved	3	18/7/2019	Dgn & Pdf
ATP-UGL-EM-000105	Portion 6 - Signalling Plan - Port Kembla - AEO Approved	3	18/7/2019	Dgn & Pdf
ATP-UGL-EM-000106	Portion 6 - Supporting Documentation - Calculations - HRSSA & HRTO - AEO Approved & MOD (Version date 18/11/2019)	4	18/11/2019	Xls
ATP-UGL-EM-000107	Portion 6 - Supporting Documentation - Calculations - BSTOP - AEO Approved	3	18/7/2019	Xls
ATP-UGL-EM-000110	Portion 6 - Site Certification Form - Allans Creek - AEO Approved	4	18/7/2019	Xls & Pdf
ATP-UGL-EM-000115	Portion 6 - Site Certification Form - Wollongong - AEO Approved & MOD 030 & 032 (Version Date 18-11-2019)	5	18/11/2019	Xls & Pdf
ATP-UGL-EM-000116	Portion 6 - Site Certification Form - Port Kembla North - AEO Approved & MOD 030 (Version Date 18-11-2019)	5	18/11/2019	Xls & Pdf
ATP-UGL-EM-000117	Portion 6 - Controls Tables - Allans Creek ETCS Balise and LEU Tables - AEO Approved	4	18/07/2019	Xls & Pdf
ATP-UGL-EM-000138	Portion 6 - Controls Tables - Port Kembla North ETCS Balise and LEU Tables - AEO Approved	3	18/07/2019	Xls & Pdf
ATP-UGL-EM-000139	Portion 6 - Controls Tables - Wollongong ETCS Balise and LEU Tables - AEO Approved & MOD 045 & 051 (Version Date 18-11-2019)	4	18/11/2019	Xls & Pdf
ATP-UGL-EM-000168	Portion 6 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD update	8	21/11/2019	Ms Word & Pdf
ATP-UGL-EM-000285	Portion 6 - Circuit Book Wollongong, Allans Creek, Port Kembla North - AEO Approved & MOD 049 CB289 Wollongong (Version Date 18-11-2019)	3	18/11/2019	Dgn & Pdf

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staf	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00-
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	TBA
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07

24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBA
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 6 Modifications – This variation	\$186,102.79
Contract Revised Sum		\$14,300,769.64

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 29 – Incorporate Area 4&5 D&C Contractor Portion 4
Modifications (Impact on Portion 4 due to Portion 2 Contractor
Modifications)**

We refer to TfNSW’s response to RFI-033 (ATP-TFNSW-ALS-CORR-000099) dated 19 December 2019 and Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 18 March 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 4 Modifications into the Contract Materials in accordance with the revised Signalling Plan Package 4 and Signalling Design Package 4 documents detailed in Attachment A
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion under this variation will be addressed as a separate matter.
3. Contract Sum:
 - a) The Fee is increased by \$57,423.43 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$57,423.43

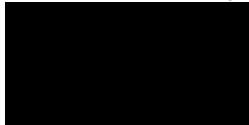


Table 1: Fee Breakdown

b) The Fee is revised to \$14,627,051.14 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Mr. Matthew Cassidy via email to matthew.cassidy@transport.nsw.gov.au.

Yours sincerely,



**Himesh Nair
Principal’s Representative
ATP Program**

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 4 and Signalling Design Package 4 as listed therein RFI-033 (ATP-TFNSW-ALS-CORR-000099)
- Attachment B – Revised Fee

Variation 29 for Portion 4 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 impacting data design of Package 4 as per RFI-033

Document No.	Title	Version	Date	Format
ATP-UGL-EM-000043	Portion 2 - Signalling Plan - Allawah (INCL) - Oatley (INC) (EXCL) – AEO approved	4	12/09/2019	Dgn & Pdf
ATP-UGL-EM-000044	Portion 2 - Site Certification Form - Hurstville - Sutherland – AEO Approved with MOD 005 & 017 version date 12.09.2019	7	12/09/2019	MS Excel & Pdf
ATP-UGL-EM-000090	Portion 2 - Supporting Documentation - Calculations - HROL, HSSR, HRTO, Window of Expectation, Gradient Out put Tables – AEO approved & MOD 017	5	12/09/2019	MS Excel
ATP-UGL-EM-000092	Portion 2 - Controls Tables - Hurstville - Sutherland - ETCS Balise and LEU Tables – AEO Approved with MOD 005 & 017 Version Date 12.09.2019	6	12/09/2019	MS Excel & PDF
ATP-UGL-EM-000155	Portion 2 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design – AEO Approved with MOD 005 & 017	8	16/09/2019	MSWord & Pdf
ATP-UGL-EM-000210	Portion 2 - Circuit Book CB010 Hurstville to Sutherland - AEO Approved with MOD 001 & Redline Markup	5	12/09/2019	Dgn & PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07

Variation Number	Description	Value
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	TBA
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification – This Variation	\$57,423.43
Contract Revised Sum		\$14,627,051.14

ATP Letter Ref: 6459713

Alstom Ref: [REDACTED]

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 30 – Incorporate Area 4&5 D&C Contractor Portion 5
Modifications aligned to Network Configuration Changes**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 24 April 2020 and TfNSW’s previous letter reference 6433025 dated 12 March 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 5 modifications into the Contract Materials in accordance with the revised Signalling Plan Package 5 and Signalling Design Package 5 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under under TfNSW’s assessment of Alstom’s extension of time claims, ref: [REDACTED], [REDACTED], currently being discussed by the parties..
3. Contract Sum:
 - a) The Fee is increased by \$31,937.16 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]



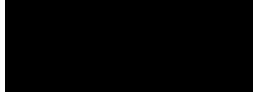
Role	Hourly Rate	Hours	Extension
Design Management	██████	█	██████
Total Fee for this variation			\$31,937.16

Table 1: Fee Breakdown

b) The Fee is revised to \$14,724,611.42 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided on the following page and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5 as listed therein DS #6433025
- Attachment B – Revised Fee

Variation 30 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000021	Portion 5 - Signalling Plan - Unanderra Signalling plan - AEO Approved	3	29/04/2019	PDF & DGN & XLS
ATP-UGL-EM-000022	Portion 5 - Signalling Plan - Dapto to Kiama - AEO Approved & MOD Update (Version Date 18.10.2019)	4	18/10/2019	PDF & DGN
ATP-UGL-EM-000023	Portion 5 - Controls Tables - Unanderra ETCS Balise and LEU Tables - AEO Approved & MOD 28,40,42 Update (Version Date 18.10.2019)	5	18/10/2019	PDF & XLS
ATP-UGL-EM-000024	Portion 5 - Site Certification Form - Unanderra - AEO Approved & MOD 65 Update (Version Date 19.02.2020)	6	19/02/2020	PDF & XLS
ATP-UGL-EM-000025	Portion 5 - Site Certification Form - Albion Park - AEO Approved & MOD 062 Update (Version Date 05-02-2020)	7	05/02/2020	PDF & XLS
ATP-UGL-EM-000026	Portion 5 - Site Certification Form - Dunmore - AEO Approved	4	29/04/2019	PDF & XLS
ATP-UGL-EM-000027	Portion 5 - Site Certification Form - Bombo - AEO Approved & MOD 34&40 Update (Version Date 18.10.2019)	5	18/10/2019	PDF & XLS
ATP-UGL-EM-000028	Portion 5 - Site Certification Form - Kiama - AEO Approved & MOD 40 Update (Version Date 18.10.2019)	6	18/10/2019	PDF & XLS
ATP-UGL-EM-000029	Portion 5 - Site Certification Form - Dapto - AEO Approved & MOD 14&40 Update (Version Date 18.10.2019)	6	18/10/2019	PDF & XLS
ATP-UGL-EM-000030	Portion 5 - Controls Tables - Albion Park ETCS Balise and LEU Tables - AEO Approved & MOD 40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000031	Portion 5 - Controls Tables - Dunmore ETCS Balise and LEU Tables - AEO Approved & MOD 40, 42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000032	Portion 5 - Controls Tables - Bombo ETCS Balise and LEU Tables - AEO Approved & MOD 14,40,42 Update (Version Date 18.10.2019)	4	18/10/2019	PDF & XLS
ATP-UGL-EM-000033	Portion 5 - Controls Tables - Kiama ETCS Balise and LEU Tables - AEO Approved	3	26/04/2019	PDF & XLS
ATP-UGL-EM-000034	Portion 5 - Controls Tables - Dapto ETCS Balise and LEU Tables - AEO Approved & MOD 067 Update (Version Date 28.02.2020)	11	28/02/2020	PDF & XLS
ATP-UGL-EM-000091	Portion 5 - Supporting Documentation - Calculations - Unanderra Kiama, Bombo AEO Approved & MOD Update (Version Date 18.10.2019)	4	21/10/2019	XLS
ATP-UGL-EM-000121	Portion 5 - Supporting Documentation - Calculations - Dunmore, Albion Park , Dapto - AEO Approved & MOD Update (Version Date 18.10.2019)	5	18/10/2019	XLS

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000222	Portion 5 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 065, 067 (Version Date 02-03-2020)	14	02/03/2020	PDF & MS Word
ATP-UGL-EM-000233	Portion 5 - Circuit Book Unanderra, Albion Park, Dunmore, Bombo, Kiama, Dapto - AEO Approved & MOD 063 Update (Unanderra CB073) Version Date 05.02.2020	5	05/02/2020	XLS
ATP-UGL-EM-000239	Portion 5 - Supporting Documentation - Gradient Table - AEO Approved & MOD Update (Version Date 18.10.2019)	6	18/10/2019	MS Word & XLS
ATP-UGL-EM-000248	Portion 5 - ATP Signalling Power Distribution Report	2	05/07/2019	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,725.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications - Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571,85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07

Variation Number	Description	Value
24	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 - Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 - Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
Contract Revised Sum		\$14,724,611.42

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 31 – Area 5 Portion 5 Modifications–Direction**

TfNSW makes reference to the email issued by Yik Yen Chong on 06 July 2020 giving direction to Alstom to proceed for Area 5 Portion 5 modifications. Further to this email and pursuant to clause 16.2 TfNSW instructs Alstom to vary the Services as follows:

- (a) Minnamurra: Lamp threshold values change as per the email attached (values have been checked and approved)
- (b) Dapto: new design will be delivered by Richie by mid-week and it needs to be included in Area 5 portion 5 data at the same time as Minnamurra parameters change.

In addition to the above, these tests have identified that extra modifications are required on Minnamurra lamp parameters. TfNSW agrees with Alstom's findings, detailed in Tim Makres email dated 27 July 2020, approved by Sydney Trains (Jesse Crick) and TfNSW (attachment B), endorsing option #1: (All thresholds C_LAMP_THRES_ON="110" C_LAMP_THRES_OFF="60".)

The data produced for Minnamurra will only be for this balise roup and will be clearly identified as "trial data v1.1.1". The release note from Alstom will clearly identify these.

Option 2 and option 3, detailed in Alstom's email dated 27 July 2020 are back up solutions and should be prepared immediately after option 1 is delivered.

Schedule:

- Modifications to be provided as soon as possible.
- Release note for tests =shall be submitted 1 day after validated data submission.

Pursuant to clause 16.2 of the abovementioned contract, TfNSW issues variation 31 to Alstom to incorporate Area 5 Portion 5 directions as noted above.

Further, TfNSW requests Alstom to provide the following particulars within 10 business days of the date of this variation:

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

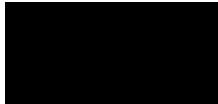


1. A high level assessment of Alstom's Services that are likely to be impacted;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of the variation amount of the additional effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

Pursuant to clause 16.2 of the abovementioned contract, the Fee will be adjusted in accordance with clause 16.3 (b) of the Agreement.

Please contact Matthieu Thomas for further clarification on this subject matter.

Yours sincerely



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

Attachment A- Email dated 06 July 2020.

-Attachment B Email dated 27 July 2020: "Re: 43.4 Westrace Signalling interface"

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 32 – Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 3 July 2020 and TfNSW’s previous letter reference 6461413 dated 28 May 2020.

Further to the above, TfNSW also refers to the discussions between TfNSW’s Sarah Grant, of 27 July 2020 with the Contractor’s Representative, wherein it was agreed between the parties that in spite of Contractor’s entitlement to adjust the Schedule Rates on each subsequent anniversary from 4 June that the hourly rates agreed to under variation 15, ref: 6325693, dated 15 August 2019, will apply to this variation.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Area 4 Portion 2 NIT mod 071 and mod 072 into the Contract Materials in accordance with the revised Signalling Plan Package 2 and Signalling Design Package 2 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under TfNSW’s assessment of Alstom’s extension of time claims, ref: 0355-AMS-TRK455 and 0402-AMS-TRK455, currently being discussed by the parties.
3. Fee:
 - a) The Fee is increased by \$71,849.00 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]

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



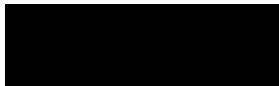
Role	Hourly Rate	Hours	Extension
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$71,849.00

Table 1: Fee Breakdown

b) The Fee is revised to \$14,796,069.48 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal’s Representative
ATP Program

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 as listed therein DS #6461413
- Attachment B – Revised Fee

Variation 32 for Portion 2 NIT Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000043	Portion 2 – Signalling Plan – Allawah (INCL) – Oatley (INC) (EXCL) – AEO Approved & MOD 071 (Version Date 15.05.2020)	6	15/05/20	pdf & dgn
ATP-UGL-EM-000044	Portion 2 – Site Certification Form – Hurstville – Sutherland – AEO Approved with MOD 071, 072A (Version Date 15.05.2020)	9	15/05/20	pdf & xlsx
ATP-UGL-EM-000090	Portion 2 – Supporting Documentation – Calculations – HROL, HSSR, HRT0, Window of Expectation, Gradient Output Tables – AEO Approved & MOD 017	5	12.09.19	xlsx
ATP-UGL-EM-000092	Portion 2 – Controls Tables – Hurstville – Sutherland – ETCS Balise and LEU Tables – AEO Approved with MOD 071, 072A (Version Date 15.05.2020)	8	15/05/20	pdf & xlsx
ATP-UGL-EM-000155	Portion 2 – Detailed Design Report – ATP Program Trackside Network Rollout Signalling Design – AEO Approved with MOD 071 & 072A	12	22/05/20	Pdf & docx
ATP-UGL-EM-000210	Portion 2 – Circuit Book CB010 Hurstville to Sutherland – AEO Approved with MOD 001 & Redline Markup	5	08.07.19	pdf
ATP-UGL-EM-000235	Portion 2 – ATP Signalling Power Distribution Report	1	2017	pdf

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571,85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13

Variation Number	Description	Value
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072 – This Variation	\$71,849.00
Contract Revised Sum		\$14,796,069.48

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 33 – Incorporation of Area 4 Portion 2 NIT Simulation Error Mod
 070**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 3 July 2020 and TfNSW’s previous letter reference 6450168 dated 05 May 2020.

Further to the above, TfNSW also refers to the discussions between TfNSW’s Sarah Grant, of 27 July 2020 with the Contractor’s Representative, wherein it was agreed between the parties that in spite of Contractor’s entitlement to adjust the Schedule Rates on each subsequent anniversary from 4 June that the hourly rates agreed to under variation 15, ref: 6325693, dated 15 August 2019, will apply to this variation.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Area 4 Portion 2 NIT simulation error mod 070 into the Contract Materials in accordance with the revised Signalling Plan Package 2 and Signalling Design Package 2 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under TfNSW’s assessment of Alstom’s extension of time claims, ref: 0355-AMS-TRK455 and 0402-AMS-TRK455, currently being discussed by the parties.
3. Fee:
 - a) The Fee is increased by \$87,140.57 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]



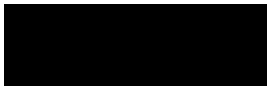
Role	Hourly Rate	Hours	Extension
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$87,140.57

Table 1: Fee Breakdown

b) The Fee is revised to \$14,883,210.05 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal’s Representative
ATP Program

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 as listed therein DS #6450168
- Attachment B – Revised Fee

Variation 33 for Portion 2 NIT Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000043	Portion 2 - Signalling Plan - Allawah (INCL) - Oatley (INC) (EXCL) - AEO Approved & MOD 0070 (Version Date 23.04.2020)	5	23.04.20	pdf & dgn
ATP-UGL-EM-000044	Portion 2 - Site Certification Form - Hurstville - Sutherland - AEO Approved with MOD 070 (Version Date 23.04.2020)	8	23.04.20	pdf & xlsx
ATP-UGL-EM-000090	Portion 2 - Supporting Documentation - Calculations - HROL, HSSR, HRTO, Window of Expectation, Gradient Output Tables - AEO Approved & MOD 017	5	12.09.19	xlsx
ATP-UGL-EM-000092	Portion 2 - Controls Tables - Hurstville - Sutherland - ETCS Balise and LEU Tables - AEO Approved with MOD 070 (Version Date 23.04.2020)	7	23.04.20	pdf & xlsx
ATP-UGL-EM-000155	Portion 2 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved with MOD 070	5	23.04.20	Pdf & docx
ATP-UGL-EM-000210	Portion 2 - Circuit Book CB010 Hurstville to Sutherland - AEO Approved with MOD 001 & Redline Markup	5	08.07.19	pdf
ATP-UGL-EM-000235	Portion 2 - ATP Signalling Power Distribution Report	1	2017	pdf

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571,85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13

Variation Number	Description	Value
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072 – This Variation	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070 – This Variation	\$87,140.57
Contract Revised Sum		\$14,883,210.05

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 34 – Incorporation of Area 4 Portion 2 Signalling Design Mod 074**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 3 July 2020 and TfNSW’s previous letter reference 6462649 dated 03 June 2020.

Further to the above, TfNSW also refers to the discussions between TfNSW’s Sarah Grant, of 27 July 2020 with the Contractor’s Representative, wherein it was agreed between the parties that in spite of Contractor’s entitlement to adjust the Schedule Rates on each subsequent anniversary from 4 June that the hourly rates agreed to under variation 15, ref: 6325693, dated 15 August 2019, will apply to this variation.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Area 4 Portion 2 Signalling Design mod 070 into the Contract Materials in accordance with the revised Signalling Plan Package 2 and Signalling Design Package 2 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under TfNSW’s assessment of Alstom’s extension of time claims, ref: 0355-AMS-TRK455 and 0402-AMS-TRK455, currently being discussed by the parties.
3. Fee:
 - a) The Fee is increased by \$23,213.16 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]

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



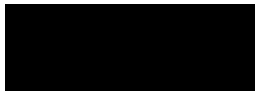
Role	Hourly Rate	Hours	Extension
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$23,213.16

Table 1: Fee Breakdown

b) The Fee is revised to \$14,906,423.21 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal’s Representative
ATP Program

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 2 and Signalling Design Package 2 as listed therein DS #6462649
- Attachment B – Revised Fee

Variation 34 for Portion 2 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 2 and Signalling Design Package 2

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000043	Portion 2 - Signalling Plan - Allawah (INCL) - Oatley (INC) (EXCL) - AEO Approved & MOD 074 (Version Date 25.05.2020)	7	25/05/20	pdf & dgn
ATP-UGL-EM-000044	Portion 2 - Site Certification Form - Hurstville - Sutherland - AEO Approved with MOD 071, 072A (Version Date 15.05.2020)	9	15/05/20	pdf & xlsx
ATP-UGL-EM-000090	Portion 2 - Supporting Documentation - Calculations - HROL, HSSR, HRTO, Window of Expectation, Gradient Output Tables - AEO Approved & MOD 017	5	12.09.19	xlsx
ATP-UGL-EM-000092	Portion 2 - Controls Tables - Hurstville - Sutherland - ETCS Balise and LEU Tables - AEO Approved with MOD 074 (Version Date 25.05.2020)	9	25/05/20	pdf & xlsx
ATP-UGL-EM-000155	Portion 2 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved with MOD 074	13	28/05/20	Pdf & docx
ATP-UGL-EM-000210	Portion 2 - Circuit Book CB010 Hurstville to Sutherland - AEO Approved with MOD 074 (Version Date 27-05-2020)	6	27/05/20	pdf
ATP-UGL-EM-000235	Portion 2 - ATP Signalling Power Distribution Report	1	2017	pdf

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571,85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13

Variation Number	Description	Value
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074 – This Variation	\$23,213.16
Contract Revised Sum		\$14,906,423.21

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 35 – Incorporation of Portion 3 NIT Mod 073B and Mod 073**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 24 June 2020 and TfNSW’s previous letter reference 6461315 dated 28 May 2020.

Further to the above, TfNSW also refers to the discussions between TfNSW’s Sarah Grant, of 27 July 2020 with the Contractor’s Representative, wherein it was agreed between the parties that in spite of Contractor’s entitlement to adjust the Schedule Rates on each subsequent anniversary from 4 June that the hourly rates agreed to under variation 15, ref: 6325693, dated 15 August 2019, will apply to this variation.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 3 NIT mod 073B and mod 073 into the Contract Materials in accordance with the revised Signalling Plan Package 3 and Signalling Design Package 3 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under TfNSW’s assessment of Alstom’s extension of time claims, ref: 0355-AMS-TRK455 and 0402-AMS-TRK455, currently being discussed by the parties.
3. Fee:
 - a) The Fee is increased by \$70,103.30 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]

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



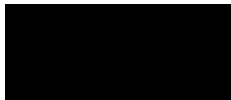
Role	Hourly Rate	Hours	Extension
Data Validation Manager	████████	██	████████
System Assurance	████████	██	████████
Independent Professional review	████████	██	████████
Design Management	████████	██	████████
Total Fee for this variation			\$70,103.30

Table 1: Fee Breakdown

b) The Fee is revised to \$14,976,526.31 as described in Attachment B.

Please confirm Alstom’s acceptance of this variation in the space provided on the following page and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal’s Representative
ATP Program

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3 as listed therein DS #6461315
- Attachment B – Revised Fee

Variation 35 for Portion 3 NIT Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 3 and Signalling Design Package 3

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000036	Portion 3 - Signalling Plan - Oatley to Engadine (EXCL) - AEO Approved & MOD Update 072B- Version Date 15.05.2020	6	15/05/2020	PDF, DGN
ATP-UGL-EM-000095	Portion 3 - Signalling Plan - Engadine to Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	4	07/10/2019	PDF, DGN
ATP-UGL-EM-000096	Portion 3 - Controls Tables - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, XLS
ATP-UGL-EM-000097	Portion 3 - Site Certification Form - Oatley (excl) - Sutherland - Loftus - AEO Approved & MOD Update 072B - Version Date 15.05.2020	7	15/05/2020	PDF, XLS
ATP-UGL-EM-000098	Portion 3 - Site Certification Form - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, XLS
ATP-UGL-EM-000099	Portion 3 - Site Certification Form - Waterfall - AEO Approved & MOD Update 069 - (Version Date 31.03.2020)	9	31/03/2020	PDF, XLS
ATP-UGL-EM-000101	Portion 3 - Supporting Documentation - Calculations - HROL, HSSR, HRTO - AEO Approved MOD Update - Version Date 15.05.2020	9	15/05/2020	PDF/D OC
ATP-UGL-EM-000114	Portion 3 - Controls Tables - Oatley (EXCL) - Sutherland - Loftus JNC - AEO Approved & MOD Update MOD072B - Version Date 15.05.2020	7	15/05/2020	PDF, XLS
ATP-UGL-EM-000118	Portion 3 - Supporting Documentation - Gradient Output Tables - AEO Approved & MOD Update 72B - Version Date 15.05.2020	9	15/05/2020	XLS
ATP-UGL-EM-000127	Portion 3 - Controls Table- Waterfall - AEO Approved & MOD Update 073 - Version Date 15-05-2020	8	15/05/2020	PDF, XLS

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000152	Portion 3 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 072B & 073	17	22/05/2020	PDF, DOC
ATP-UGL-EM-000242	Portion 3 - Circuit Book - Sutherland -Loftus, Waterfall, Loftus Junction - AEO Approved & MOD 009 (Waterfall CB069)	4	18/10/2019	PDF, DGN, XLS
ATP-UGL-EM-000274	Portion 3 - ATP Signalling Power Distribution Report -	1	2017	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
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18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13

Variation Number	Description	Value
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073 – This Variation	\$70,103.30
Contract Revised Sum		\$14,976,526.51

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 36 – Area 4 Portion 2 Mod 074– Implement Contact Sensing
From uCrrrent Sensing**

Pursuant to clause 16.2 TfNSW varies the Services under the Agreement for Area 4 Portion 2 as follows:

- Hurstville SM 919 and SM 917 (NIT_A4_008/RTC 2991) –implementation of the mod-074 from current sensing to contact sensing.

In addition to the above, TfNSW acknowledges that Alstom has already undertaken the changes to the Contract Materials associated with this variation and requests Alstom to finalise the release note and send the revised Contract Materials to TfNSW by 5pm 7 August 2020.

Pursuant to clause 16.2 of the abovementioned Agreement, TfNSW issues variation 36 to Alstom to incorporate Area 4 Portion 2 directions as noted above.

Further, TfNSW requests Alstom to provide the following particulars within 5 business days of the date of this variation:

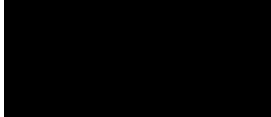
1. A high level assessment of Alstom's Services that are likely to be impacted;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of the variation amount of the additional effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

The Fee will be adjusted in accordance with clause 16.3(b) of the Agreement.



Please contact Matthieu Thomas or Richie Lim for further clarification on this subject matter.

Yours sincerely



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
Subject: Variation 37 - Portion 5 – CCB Pack Direction**

In accordance with clause 12.1 of the Contract, TfNSW makes reference to the email by Himesh Nair dated 31 March 2020 giving direction to Alstom to submit only one CCB pack for Area 5 Portion 5.

This direction requested Alstom to:

- a) put the CCB pack & ISA for CB073 and CB299 (Area5, Portion 5) on hold;
- b) commence work to modify circuit book (CB) 295 (Area5, Portion 5); and
- c) include CB073, CB299 and CB295 in the same CCB4 package and IPR letter.

TfNSW requires Alstom to submit a single CCB pack in accordance with the following table (target dates):

Area 5 portion 5	IV data	CCB pack	IPR letter
CB073 + CB299	27/03/20	09/04/20	16/04/20
CB295	03/04/20		

The Date for Completion of Portion 5 is revised to:

Area 5 portion 5	IV data	CCB pack + IPR letter
CB073 + CB299 + CB295	10/4/2020	24/04/2020

Pursuant to clause 16.2 of the abovementioned contract, TfNSW issues variation 37 to Alstom to incorporate the Portion 5 CCB Pack directions as noted above (Additional Services).

Further, TfNSW requests Alstom to provide the following particulars within 5 business days of receipt of this variation:

1. A high level assessment of Alstom's Services that are likely to be impacted;

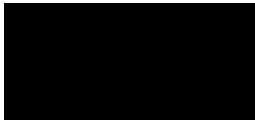
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of the variation amount of the additional effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

It is noted that the scope of the Additional Services under this variation have already been completed and the Contract Materials have been submitted. This variation is the confirmation of the direction issued on 31 March 2020.

Pursuant to clause 16.2 of the abovementioned contract, the Fee will be adjusted in accordance with clause 16.3 (b) of the Agreement.

Please contact Matthieu Thomas or Richie Lim for further clarification on this subject matter.

Yours sincerely



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Email dated 31 March 2020.

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
 Data Design of ATP Area 4 and Area 5 (ISD-17-6378) (Agreement)
 Subject: Variation 38 – Amendment to Yard Entry and Exit Balise
 Groups in Area 4 and 5 (Q-Link)**

TfNSW refers to its variation proposal request (VPR) ref. 6434937 dated 12 March 2020 and Alstom’s letter referenced above dated 28 May 2020, wherein Alstom submitted a detailed estimate of the costs and time to amend the Contract Material for Yard Entry and Exit Balise Groups within Area 4 (Cronulla, Mortdale and Waterfall) and Area 5 (Port Kembla, Wollongong and Kiama).

Further to Alstom’s above noted letter, TfNSW advises that it has assessed the time and cost impact and pursuant to clause 16.3(a) of the above-mentioned Agreement, TfNSW here by varies the Agreement subject to:

1. **Scope of Variation:** Amend the Contract Material associated with CCB Gate 5 Yard Entry and Exit Balise Groups within each Portion associated with the above noted Yard locations (i.e. Area 4: Portion 1, Portion 2 and Portion 3 and Area 5: Portion 5 and Portion 6) in accordance with the requirements as detailed in Attachment A and Attachment B, which include:
 - (a) Updating Data Design;
 - (b) Updating CCB4 pack;
 - (c) Updating IPR Letter of Support for testing; and.
 - (d) Updating relevant project, design and safety documentation.

2. **Date for Completion:** The current Date for Completion for Portions 1,2,3,5 and 6 arising from this variation is 22 September 2020, however it has been agreed between the two parties (TfNSW and Alstom) that there will be no additional project management costs associated with the Date for Completion for Q-Link.

3. **Contract Sum:**
 - a) The Fee is increased by \$173,984.21 excl GST for this variation as described in Table 1 below :

Role	Hourly Rates	Hours	Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]

Role	Hourly Rates	Hours	Price
System Assurance			
Independent Professional Reviewer			
Design Management			
Total ex GST			\$173,984.21

Table 1: Fee Breakdown

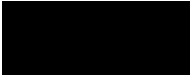
b) The Fee is revised to \$15,150,510.72 as described in Attachment C.

All other terms and conditions of the Agreement remain unchanged.

TfNSW requests Alstom to accept this variation 38 by signing in the space provided below and return this document in its entirety to Simmi Joseph via email (simmi.joseph@transport.nsw.gov.au).

Please contact Mathieu Thomas should you have any queries regarding this matter.

Yours sincerely



Yik Yen Chong
Principal's Representative
ATP Program

Date

Attachments:

Attachment A - SoW_A4_depot BG mods_final.pdf (DS#6435611)

Attachment B - SoW_A5_depot BG mods_final.pdf (DS#6435612)

Attachment C - Revised Fee

Variation 38 for Area 4&5 under Contract ISD-17-6378 is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Variation Number	Description	Amount
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.07
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12

Variation Number	Description	Amount
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16
31	Area 5 Portion 5 modifications – Direction	\$0.00
32	Incorporation of Portion 2 NIT MOD-071 and MOD-072	\$71,849.00
33	Portion 2 NIT Simulation Error MOD-070	\$87,140.57
34	Incorporation of A4P2 Sig Des Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073 073B	\$70,103.30
36	Area4 Portion2 MOD 074 - Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 - CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5 – This Variation	\$173,984.21
Contract Revised Sum		\$15,150,510.72

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378)
 Subject: Variation 39 –Area 5 Portion 8 – Incorporation Area 4&5 D&C Contractor
 Portion 8 Modifications – MOD 084**

TfNSW's makes reference to its previous letters ref. 6429006 dated 25 March 2020 and ref. 6484907 dated 11 August 2020, TfNSW acknowledges that Alstom has already undertaken the changes to the Contract Materials associated with this variation and requests Alstom to finalise the release note and send the revised Contract Materials to TfNSW by 5pm 13 August 2020.

Pursuant to clause 16.2 of the abovementioned Agreement, TfNSW issues variation 39 to Alstom to revise the Contract Materials for Portion 8 to align with the revised D&C Contractor's modifications to the latest Signalling Plan Package 8 and Signalling Design Package 8 in line with the impacted balise groups, as described in the documents listed below (refer table 1).

Document No	Rev	Sts	Title
ATP-UGL-EM-000108	5	AEA	Portion 8 - Signalling Plan - Otford INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)
ATP-UGL-EM-000141	3	AEA	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved Version Date (26.08.2019)
ATP-UGL-EM-000142	4	AEA	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved
ATP-UGL-EM-000143	3	AEA	Portion 8 - Signalling Plan – Coalcliff (EXCL) - Scarborough (INCL) - AEO Approved
ATP-UGL-EM-000144	3	AEA	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved
ATP-UGL-EM-000145	5	AEA	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRT0, Gradient Table - AEO Approved & MOD Update 084 Version Date (04/08/2020)
ATP-UGL-EM-000147	5	AEA	Portion 8 - Controls Tables - Otford - AEO Approved & MOD 044 - Version Date(21.11.2019)
ATP-UGL-EM-000148	3	AEA	Portion 8 - Controls Tables - Helensburgh - AEO Approved
ATP-UGL-EM-000149	3	AEA	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved
ATP-UGL-EM-000150	5	AEA	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)

Document No	Rev	Sts	Title
ATP-UGL-EM-000151	3	AEA	Portion 8 - Controls Tables - Scarborough - AEO Approved
ATP-UGL-EM-000153	4	AEA	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved
ATP-UGL-EM-000154	5	AEA	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)
ATP-UGL-EM-000156	5	AEA	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)
ATP-UGL-EM-000157	6	AEA	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)
ATP-UGL-EM-000158	4	AEA	Portion 8 - Site Certification Form - Scarborough - AEO Approved
ATP-UGL-EM-000299	14	AEA	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 084
ATP-UGL-EM-000302	2	AEA	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliff, Scarborough - AEO Approved

Table 1

These documents were submitted to Alstom via Team Binder on 05 August 2020 under document transmittal no. ATP-TFNSW-ALS-TX-000152 and formally by letter referenced 6484907 dated 11 August 2020. A copy of the transmittal is attached (refer Attachment 1).

Further, TfNSW requests Alstom to provide the following particulars by COB 13 August 2020:

1. A high level assessment of Alstom's Services that are likely to be impacted as a result of revised documents within the attachments;
2. Effect on Alstom's program, if any, including impact on the Date for Completion for any Portion;
3. Effect on Alstom's program, if any, on the provision of the validated data for circuit books that have not already been transmitted to TfNSW; and
4. The breakdown of amount of effort required to incorporate the changes, if any, into the Services based on the personnel and resources described in Schedule 6.

The Fee will be adjusted in accordance with clause 16.3 (b) of the Agreement.

Please contact Matthieu Thomas for further clarification on this subject matter.

Yours sincerely,



**Yik Yen Chong
Principal's Representative
ATP Program**

Dated:

Attachments:
Document Transmittal ATP-TFNSW-ALS-TX-000152

Transmitted cc:

Company	Name
Transport for NSW	Yik Yen Chong
Transport for NSW	Richie Lim
Transport for NSW	Sarah Grant
Transport for NSW	Simmi Joseph
Transport for NSW	Rajiv Garg
Transport for NSW	Anna Denk
Transport for NSW	Cameron Lindsay
Transport for NSW	ATP Document Controller
Transport for NSW	Matthieu Thomas
Transport for NSW	Naz Low
Transport for NSW	Lalitha Ramalingareddy

[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	ATP-UGL-EM-000108	5	AEA	Portion 8 - Signalling Plan - Otord INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)	D2820011	A45-P8
2	ATP-UGL-EM-000141	3	AEA	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved Version Date (26.08.2019)	D2810011	A45-P8
3	ATP-UGL-EM-000142	4	AEA	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved	D2830011	A45-P8
4	ATP-UGL-EM-000143	3	AEA	Portion 8 - Signalling Plan - CoalCliff (EXCL) - Scarborough (INCL) - AEO Approved	D2840011	A45-P8
5	ATP-UGL-EM-000144	3	AEA	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved	D2800011	A45-P8
6	ATP-UGL-EM-000145	5	AEA	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRTO, Gradient Table - AEO Approved & MOD Update 084 Version Date (04/08/2020)		A7.2 VBBS1

7	ATP-UGL-EM-000147	5	AEA	Portion 8 - Controls Tables - OTFORD - AEO Approved & MOD 044 - Version Date(21.11.2019)	ET282	A45-P8
8	ATP-UGL-EM-000148	3	AEA	Portion 8 - Controls Tables - Helensburgh - AEO Approved	ET280	A45-P8
9	ATP-UGL-EM-000149	3	AEA	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved	ET281	A45-P8
10	ATP-UGL-EM-000150	5	AEA	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)	ET283	A45-P8
11	ATP-UGL-EM-000151	3	AEA	Portion 8 - Controls Tables - Scarborough - AEO Approved	ET284	A45-P8
12	ATP-UGL-EM-000153	4	AEA	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved	SCF280	A45-P8
13	ATP-UGL-EM-000154	5	AEA	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)	SCF281	A45-P8
14	ATP-UGL-EM-000156	5	AEA	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)	SCF282	A45-P8
15	ATP-UGL-EM-000157	6	AEA	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)	SCF283	A45-P8
16	ATP-UGL-EM-000158	4	AEA	Portion 8 - Site Certification Form - Scarborough - AEO Approved	SCF284	A45-P8
17	ATP-UGL-EM-000299	14	AEA	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 084	2017-RSA-140-DDR-08	A45-P8
18	ATP-UGL-EM-000302	2	AEA	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliff, Scarborough - AEO Approved		A45-P8

Transmitted by: Richie Lim, Transport for NSW

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 40 – Incorporation of Area 4 Portion 3 Mod 005**

TfNSW refers to its letter ref. 6444261 dated 16 April 2020 and Alstom’s letter referenced above dated 24 June 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 3 mod 005 into the Contract Materials in accordance with the revised Signalling Plan Package 3 and Signalling Design Package 3 documents detailed in Attachment A and previously issued under TfNSW’s aforementioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion as a result of this Variation. Any adjustment to the Date for Completion will be included under TfNSW’s assessment of Alstom’s extension of time claim, ref: [REDACTED], currently being reviewed by the parties.
3. Fee:
 - a) The Fee is increased by \$87,640.56 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$87,640.56

Table 1: Fee Breakdown

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

b) The Fee is revised to \$15,238,150.72 as described in Attachment B.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



**Yik Yen Chong
Principal's Representative
ATP Program**

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 3 and Signalling Design Package 3 as listed therein DS #6444261
- Attachment B – Revised Fee

Variation 40 for Portion 3 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 3 and Signalling Design Package 3

Document No.	Title	Version	AEO Approved Date	Format
ATP-UGL-EM-000036	Portion 3 - Signalling Plan - Oatley to Engadine (EXCL) - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, DGN
ATP-UGL-EM-000095	Portion 3 - Signalling Plan - Engadine to Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	4	07/10/2019	PDF, DGN
ATP-UGL-EM-000096	Portion 3 - Controls Tables - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	5	07/10/2019	PDF, XLS
ATP-UGL-EM-000097	Portion 3 - Site Certification Form - Oatley (excl) - Sutherland - Loftus - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, XLS
ATP-UGL-EM-000098	Portion 3 - Site Certification Form - Loftus Junction - Waterfall - AEO Approved & MOD Update - Version Date 07.10.2019	6	07/10/2019	PDF, XLS
ATP-UGL-EM-000099	Portion 3 - Site Certification Form - Waterfall - AEO Approved & MOD Update 069 - (Version Date 31.03.2020)	9	31/03/2020	PDF, XLS
ATP-UGL-EM-000101	Portion 3 - Supporting Documentation - Calculations - HROL, HSSR, HRTO - AEO Approved MOD Update - Version Date 31.03.2020	8	31/03/2020	PDF/D OC
ATP-UGL-EM-000114	Portion 3 - Controls Tables - Oatley (EXCL) - Sutherland - Loftus JNC - AEO Approved & MOD Update - Version Date 07.10.2019	6	31/03/2020	PDF, XLS
ATP-UGL-EM-000118	Portion 3 - Supporting Documentation - Gradient Output Tables - AEO Approved & MOD Update 069 - Version Date 31.03.2020	8	31/03/2020	XLS
ATP-UGL-EM-000127	Portion 3 - Controls Table- Waterfall - AEO Approved & MOD Update 055 - Version Date 26-11-2019	7	26/11/2019	PDF, XLS
ATP-UGL-EM-000152	Portion 3 - Detailed Design Report - ATP Program	16	06/04/2020	PDF, DOC

Document No.	Title	Version	AEO Approved Date	Format
	Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 069			
ATP-UGL-EM- 000242	Portion 3 - Circuit Book - Sutherland -Loftus, Waterfall, Loftus Junction - AEO Approved & MOD 009 (Waterfall CB069)	4	04/07/2019	PDF, DGN, XLS
ATP-UGL-EM- 000274	Portion 3 - ATP Signalling Power Distribution Report -	1	03/06/2019	PDF

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16

Variation Number	Description	Value
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 - Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 - CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005 – This Variation	\$87,640.56
Contract Revised Sum		\$15,238,150.72



ATP Letter Ref: 6495370
Alstom Ref: [REDACTED]

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

Attention: [REDACTED]

Dear [REDACTED],

Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 41 - Extension of Time to the Date for Completion for Portion 1 to Portion 9 & Q-Link and Associated Project Management Costs

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 03 August 2020.

Further to this correspondence and pursuant to Clause 18.4 of the abovementioned Agreement, TfNSW hereby issues an extension of time to the Date for Completion for Portion 1 to Portion 9 & Q-Link, as detailed in table 1 below:

Portion	Current Date for Completion	Revised Date for Completion
1	[REDACTED]	[REDACTED]
2	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]
6	[REDACTED]	[REDACTED]
7	[REDACTED]	[REDACTED]
8	[REDACTED]	[REDACTED]
Q-Link	[REDACTED]	[REDACTED]
9	[REDACTED]	[REDACTED]

Table 1

[REDACTED]

Cost associated with the extension of time

- a) The Fee is increased by \$456,827.04 excl GST for the project management costs associated with this extension of time as described in Table 2 below:

Role	Daily Rate	Business Days	Price
Project Management from [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
		Total	\$456,827.04

Table 2

- b) The Fee is revised to \$15,694,977.76 as described in Attachment A below.

Please confirm Alstom's acceptance of this extension of time to the Date for Completion for Portion 1 to Portion 9 and Q-Link and associated cost to this extension of time, in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au .

Yours sincerely,

[REDACTED]

Yik Yen Chong
Principal's Representative
ATP Program

Dated

Attachment:

- Attachment A – Revised Fee

The extension of time to the Date for Completion for Portion 1 to Portion 9 & Q-Link and associated project management costs to the extension of time - ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16

Variation Number	Description	Value
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 - Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 - CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Time to the Date for Completion for Portion 1 to Portion 9 & Q-Link and Associated Project Management Costs – This Variation	\$456,827.04
Contract Revised Sum		\$15,694,977.76

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 42 – Incorporation of Area 5 Portion 5 Mods 075, 078, 080 and 081**

TfNSW refers to its letter ref. 6477051 dated 15 July 2020 and Alstom’s letter referenced above dated 18 August 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: Incorporation of Portion 5 mods 075, 078, 080 and 081 into the Contract Materials in accordance with the revised Signalling Plan Package 5 and Signalling Design Package 5 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion nor to the preliminaries (Project Management) costs resulting from this Variation 42. These requirements remain as detailed in Variation 41, ref: 6495370, dated 3 September 2020.
3. Fee:
 - a) The Fee is increased by \$155,763.04 excl GST for this variation as described in Table 1 below:

Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$155,763.04

Table 1: Fee Breakdown

- b) The Fee is revised to \$15,850,733.36 as described in Attachment B.

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

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



**Yik Yen Chong
Principal's Representative
ATP Program**

Dated:

Attachments:

- Attachment A - Revised Signalling Plan Package 5 and Signalling Design Package 5 as listed therein DS #6477051
- Attachment B – Revised Fee

Variation 42 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 5 and Signalling Design Package 5

Document No	Rev	Status	Title
ATP-UGL-EM-000021	3	AEA	Portion 5 - Signalling Plan - Unanderra Signalling plan - AEO Approved
ATP-UGL-EM-000022	4	AEA	Portion 5 - Signalling Plan - Dapto to Kiama - AEO Approved & MOD Update (Version Date 18.10.2019)
ATP-UGL-EM-000023	5	AEA	Portion 5 - Controls Tables - Unanderra ETCS Balise and LEU Tables - AEO Approved & MOD 28,40,42 Update (Version Date 18.10.2019)
ATP-UGL-EM-000024	6	AEA	Portion 5 - Site Certification Form - Unanderra - AEO Approved & MOD 65 Update (Version Date 19.02.2020)
ATP-UGL-EM-000025	7	AEA	Portion 5 - Site Certification Form - Albion Park - AEO Approved & MOD 062 Update (Version Date 05-02-2020)
ATP-UGL-EM-000026	5	AEA	Portion 5 - Site Certification Form - Dunmore - AEO Approved with MOD 078 Version Date (24.06.2020)
ATP-UGL-EM-000027	5	AEA	Portion 5 - Site Certification Form - Bombo - AEO Approved & MOD 34&40 Update (Version Date 18.10.2019)
ATP-UGL-EM-000028	6	AEA	Portion 5 - Site Certification Form - Kiama - AEO Approved & MOD 40 Update (Version Date 18.10.2019)
ATP-UGL-EM-000029	7	AEA	Portion 5 - Site Certification Form - Dapto - AEO Approved & MOD 078 Update (Version Date 24.06.2020)
ATP-UGL-EM-000030	4	AEA	Portion 5 - Controls Tables - Albion Park ETCS Balise and LEU Tables - AEO Approved & MOD 40,42 Update (Version Date 18.10.2019)
ATP-UGL-EM-000031	5	AEA	Portion 5 - Controls Tables - Dunmore ETCS Balise and LEU Tables - AEO Approved & MOD 078 Update (Version Date 24.06.2020)
ATP-UGL-EM-000032	5	AEA	Portion 5 - Controls Tables - Bombo ETCS Balise and LEU Tables - AEO Approved & MOD 078 Update (Version Date 24.06.2020)
ATP-UGL-EM-000033	3	AEA	Portion 5 - Controls Tables - Kiama ETCS Balise and LEU Tables - AEO Approved
ATP-UGL-EM-000034	14	AEA	Portion 5 - Controls Tables - Dapto ETCS Balise and LEU Tables - AEO Approved & MOD 081 Update

Document No	Rev	Status	Title
			(Version Date 10.07.2020)
ATP-UGL-EM-000091	5	AEA	Portion 5 - Supporting Documentation - Calculations - Unanderra Kiama, Bombo AEO Approved & MOD Update 078 (Version Date 25.06.2020)
ATP-UGL-EM-000121	6	AEA	Portion 5 - Supporting Documentation - Calculations - Dunmore, Albion Park , Dapto - AEO Approved & MOD Update (Version Date 25.06.2020)
ATP-UGL-EM-000222	21	AEA	Portion 5 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update
ATP-UGL-EM-000233	7	AEA	Portion 5 - Circuit Book Unanderra, Albion Park, Dunmore, Bombo, Kiama, Dapto - AEO Approved & MOD 080 Update (Dapto CB299) Version Date 07.07.2020
ATP-UGL-EM-000239	7	AEA	Portion 5 - Supporting Documentation - Gradient Table - AEO Approved & MOD Update 078 (Version Date 25.06.2020)
ATP-UGL-EM-000248	2	IFI	Portion 5 - ATP Signalling Power Distribution Report -
ATP-UGL-EM-000406	1	AEA	Portion 5 - Controls Tables - COC ("As Commissioned") - Redline Mark Ups Dunmore ETCS Balise and LEU Tables (For RSA)

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16

Variation Number	Description	Value
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 - Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 - CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.00
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081 – This Variation	\$155,763.04
Contract Revised Sum		\$15,850,733.36

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 43 – Incorporation of Area 5 Portion 5 Modifications**

TfNSW refers to its letter ref. 6473882 dated 28 July 2020 and Alstom’s letter referenced above dated 15 September 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of the Variation: incorporation of Portion 5 modifications into the Contract Materials as previously directed under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion nor to the preliminaries (Project Management) costs resulting from this Variation 43. These requirements remain as detailed in Variation 41, ref: 6495370, dated 3 September 2020.
3. Fee:
 - a) The Fee is increased by \$26,880.24 excl GST for this variation as described in Table 1 below:

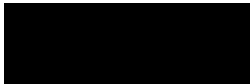
Role	Hourly Rate	Hours	Extension
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$26,880.24

Table 1: Fee Breakdown

- b) The Fee is revised to \$15,877,613.60 as described in Attachment A.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A – Revised Fee

Variation 43 for Portion 5 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
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12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5	\$31,937.16

Variation Number	Description	Value
	Modifications aligned to Network Configuration Changes	
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 - Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 - CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081	\$155,763.04
43	Incorporation of Area 5 Portion Modifications- This Variation	\$26,880.24
Contract Revised Sum		\$15,877,613.602

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 44 – Incorporation of Portion 8 Signalling Design Mod 084**

TfNSW refers to its letter ref. 6486476 dated 11 August 2020 and Alstom’s letter referenced above dated 15 September 2020.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement as follows:

1. Scope of the Variation: Incorporation of Portion 8 mod 084 into the Contract Material in accordance with the revised Signalling Plan Package 8 and Design Package 8 documents detailed in Attachment A and previously issued under TfNSW’s aforementioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion resulting from this Variation 44.
3. Fee:
 - a) The Fee is increased by lump sum amount of \$64,796.40 excl. GST as detailed in Table 1 below:

Role	Hourly Rate	Hours	Amount
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$64,796.40

Table 1: Fee Breakdown

- b) The Fee is revised to \$15,942,410.00 as detailed in Attachment B.

Please note that there is no increase in the preliminaries (Project Management) costs, which has been assessed and approved under Variation 41, ref: 6495370, dated 3 September 2020.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A – Revised Signalling Plan Package 8 and Signalling Design Package 8 as listed therein DS # 6486476
- Attachment B – Revised Fee

Variation 44 for Portion 8 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 8 and Signalling Design Package 8

Document No	Rev	Sts	Title
ATP-UGL-EM-000108	5	AEA	Portion 8 - Signalling Plan - Otford INCL - AEO Approved & MOD 044 - Version Date (21-11-2019)
ATP-UGL-EM-000141	3	AEA	Portion 8 - Signalling Plan - Helensburgh (EXCL) - Metropolitan Colliery Junction (INCL) - AEO Approved Version Date (26.08.2019)
ATP-UGL-EM-000142	4	AEA	Portion 8 - Signalling Plan - Stanwell Park (INC) - Coalcliff - AEO Approved
ATP-UGL-EM-000143	3	AEA	Portion 8 - Signalling Plan – Coalcliff (EXCL) - Scarborough (INCL) - AEO Approved
ATP-UGL-EM-000144	3	AEA	Portion 8 - Signalling Plan - Waterfall (EXCL) Helensburgh - AEO Approved
ATP-UGL-EM-000145	5	AEA	Portion 8 - Supporting Documentation - Calculations - HRSSA, HRT0, Gradient Table - AEO Approved & MOD Update 084 Version Date (04/08/2020)
ATP-UGL-EM-000147	5	AEA	Portion 8 - Controls Tables - Otford - AEO Approved & MOD 044 - Version Date(21.11.2019)
ATP-UGL-EM-000148	3	AEA	Portion 8 - Controls Tables - Helensburgh - AEO Approved
ATP-UGL-EM-000149	3	AEA	Portion 8 - Controls Tables - Metropolitan Colliery Junction - AEO Approved
ATP-UGL-EM-000150	5	AEA	Portion 8 - Controls Tables - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)
ATP-UGL-EM-000151	3	AEA	Portion 8 - Controls Tables - Scarborough - AEO Approved
ATP-UGL-EM-000153	4	AEA	Portion 8 - Site Certification Form - Helensburgh CB280 - AEO Approved
ATP-UGL-EM-000154	5	AEA	Portion 8 - Site Certification Form - Metropolitan Colliery Junction - AEO Approved & MOD 047 Version Date (21-11-2019)
ATP-UGL-EM-000156	5	AEA	Portion 8 - Site Certification Form - Otford - AEO Approved & MOD 044 - Version Date (21-11-2019)
ATP-UGL-EM-000157	6	AEA	Portion 8 - Site Certification Form - Coalcliff - AEO Approved & MOD 084 - Version Date (04-08-2020)
ATP-UGL-EM-000158	4	AEA	Portion 8 - Site Certification Form - Scarborough - AEO Approved
ATP-UGL-EM-000299	14	AEA	Portion 8 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD Update 084
ATP-UGL-EM-000302	2	AEA	Portion 8 - Circuit Book Helensburgh, Metropolitan, Otford Coalcliff, Scarborough - AEO Approved

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5	\$31,937.16

Variation Number	Description	Value
	Modifications aligned to Network Configuration Changes	
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 – Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 – CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081	\$155,763.04
43	Incorporation of Area 5 Portion 5 Modifications	\$26,880.24
44	Incorporation of Portion 8 Signalling Design Mod 084 – This Variation	\$64,796.40
Contract Revised Sum		\$15,942,410.00

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
 AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
 Subject: Variation 45 – Incorporation of Portion 6 Signalling Design Mod 076**

TfNSW refers to its previous letter ref. 6470858 dated 01 July 2020 and Alstom’s letter referenced above dated 25 September 2020 regarding the subject matter.

Further to above and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement as follows:

1. Scope of the Variation: Incorporation of Portion 6 mod 076 into the Contract Material in accordance with the revised Signalling Plan Package 6 and Design Package 6 documents detailed in Attachment A and previously issued under TfNSW’s aforementioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion resulting from this Variation 45.
3. Fee:
 - a) The Fee is increased by lump sum amount of \$124,544.18 excl. GST as detailed in Table 1 below:

Role	Hourly Rate	Hours	Amount
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$124,544.18

Table 1: Fee Breakdown

- b) The Fee is revised to \$16,066,954.18 as detailed in Attachment B.

Please note that there is no increase in the preliminaries (Project Management) costs, which has been assessed and approved under Variation 41, ref: 6495370, dated 3 September 2020.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A – Revised Signalling Plan Package 6 and Signalling Design Package 6 as listed therein DS # 6470858
- Attachment B – Revised Fee

Variation 45 for Portion 6 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 6 and Signalling Design Package 6

Item	Document No	Rev	Status	Title
1	ATP-UGL-EM-000094	4	AEA	Portion 6 - Signalling Plan - Allans Creek - AEO Approved
2	ATP-UGL-EM-000100	3	AEA	Portion 6 - Supporting Documentation - Gradient Tables & Combined Calculations' - AEO Approved & MOD (Version Date 18-11-2019)
3	ATP-UGL-EM-000103	4	AEA	Portion 6 - Signalling Plan - Wollongong City - AEO Approved & MOD 030,032,045, 051 (Version Date 18-11-2019)
4	ATP-UGL-EM-000104	3	AEA	Portion 6 - Signalling Plan - Wollongong (EXCL) Unanderra (EXCL) - AEO Approved
5	ATP-UGL-EM-000105	3	AEA	Portion 6 - Signalling Plan - Port Kembla - AEO Approved
6	ATP-UGL-EM-000106	4	AEA	Portion 6 - Supporting Documentation - Calculations - HRSSA & HRTO - AEO Approved & MOD (Version date 18//11/2019)
7	ATP-UGL-EM-000107	3	AEA	Portion 6 - Supporting Documentation - Calculations - BSTOP - AEO Approved
8	ATP-UGL-EM-000110	4	AEA	Portion 6 - Site Certification Form - Allans Creek - AEO Approved
9	ATP-UGL-EM-000115	5	AEA	Portion 6 - Site Certification Form - Wollongong - AEO Approved & MOD 030 & 032 (Version Date 18-11-2019)
10	ATP-UGL-EM-000116	5	AEA	Portion 6 - Site Certification Form - Port Kembla North - AEO Approved & MOD 030 (Version Date 18-11-2019)
11	ATP-UGL-EM-000117	4	AEA	Portion 6 - Controls Tables - Allans Creek ETCS Balise and LEU Tables - AEO Approved
12	ATP-UGL-EM-000138	3	AEA	Portion 6 - Controls Tables - Port Kembla North ETCS Balise and LEU Tables - AEO Approved
13	ATP-UGL-EM-000139	5	AEA	Portion 6 - Controls Tables - Wollongong ETCS Balise and LEU Tables - AEO Approved & MOD 076 (Version Date 24.06.2020)
14	ATP-UGL-EM-000168	11	AEA	Portion 6 - Detailed Design Report - ATP Program Trackside Network Rollout Signalling Design - AEO Approved & MOD 076 update
15	ATP-UGL-EM-000285	3	AEA	Portion 6 - Circuit Book Wollongong, Allans Creek, Port Kembla North - AEO Approved & MOD 049 CB289 Wollongong (Version Date 18-11-2019)

Attachment B – Revised Fee

Variation Number	Description	Amount
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5	\$31,937.16

Variation Number	Description	Amount
	Modifications aligned to Network Configuration Changes	
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 – Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 – CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081	\$155,763.04
43	Incorporation of Area 5 Portion 5 Modifications	\$26,880.24
44	Incorporation of Portion 8 Signalling Design Mod 084	\$64,796.40
45	Incorporation of Portion 6 Signalling Design Mod 076 – This Variation	\$124,544.18
Revised Fee		\$16,066,954.18

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 46 – Incorporation of Portion 7 Signalling Design Mod 077 & Mod 079**

TfNSW refers to its previous letter ref. 6474759 dated 09 July 2020 and Alstom’s letter referenced above dated 25 September 2020 regarding the subject matter.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement as follows:

1. Scope of the Variation: Incorporation of Portion 7 mod 077 and mod 079 into the Contract Material in accordance with the revised Signalling Plan Package 7 and Design Package 7 documents detailed in Attachment A and previously issued under TfNSW’s afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion resulting from this Variation 46.
3. Fee:
 - a) The Fee is increased by lump sum amount of \$107,455.10 excl. GST as detailed in Table 1 below:

Role	Hourly Rate	Hours	Amount
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Independent Professional review	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$107,455.10

Table 1: Fee Breakdown

- b) The Fee is revised to \$16,174,409.28 as detailed in Attachment B.



Please note that there is no increase in the preliminaries (Project Management) costs, which has been assessed and approved under Variation 41, ref: 6495370, dated 3 September 2020.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A – Revised Signalling Plan Package 7 and Signalling Design Package 7 as listed therein DS # 6474759
- Attachment B – Revised Fee

Variation 46 for Portion 7 Modifications to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package 7 and Signalling Design Package 7

Item	Document No	Rev	Status	Title
1	ATP-UGL-EM-000102	5	AEA	Portion 7 – Signalling Plan – Corrimal – AEO Approved & MOD 029 – Version Date (12.11.2019)
2	ATP-UGL-EM-000112	6	AEA	Portion 7 – Supporting Documentation – Calculations – AEO Approved & MOD 077 Update – Version Date (24.06.2020)
3	ATP-UGL-EM-000113	6	AEA	Portion 7 – Supporting Documentation – Gradient Table – AEO Approved & MOD Update
4	ATP-UGL-EM-000120	5	AEA	Portion 7 – Controls Tables – Corrimal – AEO Approved & MOD 026,029,052,054 Version date (12.11.2019)
5	ATP-UGL-EM-000129	5	AEA	Portion 7 – Site Certification Form – Corrimal – AEO Approved & MOD 029 – Version Date (12.11.2019)
6	ATP-UGL-EM-000130	4	AEA	Portion 7 – Signalling Plan – Thirroul – AEO Approved & MOD 024,029,046 – Version Date (12.11.2019)
7	ATP-UGL-EM-000131	5	AEA	Portion 7 – Site Certification Form – Thirroul – AEO Approved & MOD 029 & 046 – Version Date (12-11-2019)
8	ATP-UGL-EM-000132	9	AEA	Portion 7 – Controls Tables – Thirroul – AEO Approved & MOD 079 Version date (06.07.2020)
9	ATP-UGL-EM-000169	18	AEA	Portion 7 – Detailed Design Report – ATP Program Trackside Network Rollout Signalling Design – AEO Approved & MOD Update 079
10	ATP-UGL-EM-000270	6	AEA	Portion 7 – Circuit Book – Thirroul & Corrimal – AEO Approved & MOD 068 (CB286 Thirroul) Version Date (20.03.2020)
11	ATP-UGL-EM-000345	1	IFI	Portion 7 – ATP Signalling Power Distribution Report

Attachment B – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16

Variation Number	Description	Value
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 – Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 – CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081	\$155,763.04
43	Incorporation of Area 5 Portion 5 Modifications	\$26,880.24
44	Incorporation of Portion 8 Signalling Design Mod 084	\$64,796.40
45	Incorporation of Portion 6 Signalling Design Mod 076	\$124,544.18
46	Incorporation of Portion 7 Signalling Design Mod 077 & 079 – This Variation	\$107,455.10
Contract Revised Sum		\$16,174,409.28

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 47 –Mod 074 - Area 4 Portion 2 (Hurstville) and Area 5 Portion 5
(Minnamurra) Defects Analysis and Rectification**

TfNSW refers to its previous letter ref. 6484100 dated 05 August 2020 and Alstom's letter referenced above dated 02 November 2020 regarding the subject matter.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement as follows:

1. Scope of the Variation: Implementation of the mod 074 from current sensing to contact sensing at Hurstville SM 919 and SM 917 (NIT_A4_008/RTC 2991) into the Contract Materials as directed under TfNSW's afore-mentioned letter.
2. Date for Completion: There is no adjustment to the Date for Completion resulting from this Variation 47.
3. Fee:
 - a) The Fee is increased by lump sum amount of \$36,807.72 excl. GST as detailed in Table 1 below:

Description	Hours	Rate	Price
Total hours	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$36,807.72

Table 1: Fee Breakdown

- b) The Fee is revised to \$16,211,217.00 as detailed in Attachment A.

Please confirm Alstom's acceptance of this variation in the space provided on page two and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,

[REDACTED]

**Yik Yen Chong
Principal's Representative
ATP Program**

Dated:

Attachments:
- Attachment A – Revised Fee



Variation 47 for Hurstville and Minnamurra Defects analysis and rectification to ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
2	Extension of co-location lease	\$279,029.00
3	NIF ASDO Initial Services	\$0.00
4	Provision of data design training for additional ST staff	\$93,846.95
5	Implementation of Signalling Design Modifications	TBA
6	Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$668,451.12
7	Mobilisation & Commencement of Critical activities for ASDO Data Design	\$0.00
8	Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$611,571.66
9	Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$368,099.08
10	Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$758,673.18
11	Incorporation Area 4&5 D&C Contractor Portion 7 Modifications	\$548,234.34
12	Incorporation Area 4&5 D&C Contractor Portion 4 Modifications	\$305,353.50
13	Portion 3 Modifications – Renumbering Balise Groups	\$0.00
14	Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$438,571.85
15	Revision of Schedule of Rates	\$0.00
16	Unproductive Costs for Delayed Signalling Inputs	\$1,457,950.00
17	Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$268,858.08
18	Revised date for completion and PM costs	\$635,607.21
19	Non-productive time April 2019 to December 2019	\$439,660.00
20	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 2 Modifications	\$105,706.13
21	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$307,088.96
22	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 1 Modifications	\$92,733.81
23	PART-2 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	\$172,605.13
24	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 5 Modifications	\$65,623.12
25	PART 3 – Incorporation Area 4&5 D&C Contractor Portion 3 Modifications	88,012.70
26	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 7 Modifications – This Variation	\$133,098.77
27	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 8 Modifications	\$51,648.42
28	PART 2 – Incorporation Area 4&5 D&C Contractor Portion 6 Modifications	\$186,102.79
29	Impact on Portion 4 due to Portion 2 D&C Contractor Modification	\$57,423.43
30	Incorporate Area 4&5 D&C Contractor Portion 5 Modifications aligned to Network Configuration Changes	\$31,937.16

Variation Number	Description	Value
31	Area 5 Portion 5 Modifications–Direction	\$0.00
32	Incorporation of Area 4 Portion 2 NIT Mod 071 and Mod 072	\$71,849.00
33	Incorporation of Area 4 Portion 2 NIT simulation error Mod 070	\$87,140.57
34	Incorporation of Area 4 Portion 2 Signalling Design Mod 074	\$23,213.16
35	Incorporation of Portion 3 NIT Mod 073B and Mod 073	\$70,103.30
36	Area4 Portion2 MOD 074 – Contact Sensing from Current Sensing- Direction	\$0.00
37	Portion 5 – CCB Pack Direction	\$0.00
38	Amendment to Yard Entry and Exit Balise Groups in Area 4 and 5	\$173,984.21
39	Area5 Portion 8 NIT mod 084 – Directions	\$0.00
40	Incorporation of Area 4 Portion 3 Mod 005	\$87,640.56
41	Extension of Project Management for AMS 4 & 5 due to Variation Responses	\$456,827.04
42	Incorporation of Area 5 Portion 5 Mods 075,078,080 and 081	\$155,763.04
43	Incorporation of Area 5 Portion 5 Modifications	\$26,880.24
44	Incorporation of Portion 8 Signalling Design Mod 084	\$64,796.40
45	Incorporation of Portion 6 Signalling Design Mod 076	\$124,544.18
46	Incorporation of Portion 7 Signalling Design Mod 077 & 079 – This Variation	\$107,455.10
47	Incorporation of mod 074 - Area 4 Portion 2 (Hurstville) and Area 5 Portion 5 (Minnamurra) Defects Analysis and rectification	\$36,807.72
Contract Revised Sum		\$16,211,217.00

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
AMS Area 4 and Area 5 Trackside Data Design (ISD-17-6378) (Agreement)
Subject: Variation 49 –Area 5 Portion 6 Wollongong 270 Points relocation –
MTMS (More Trains More Services)**

TfNSW refers to its previous letter ref. 6535251 dated 24 November 2020 regarding a variation price request for the provision of additional services and Alstom’s letter referenced proposal above dated 18 December 2020 regarding the subject matter.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW hereby varies the Agreement as follows:

1. **Scope of the Variation:** Modification to Area 5 Portion 6 to include for the development of ATP data design for 270 points at Wollongong as follows:
 - a) Updating Data Design;
 - b) Updating Design and Safety Assurance for testing;
 - c) Provision of as-builts; and
 - d) Project Management activities.
2. **Date for Completion:** Alstom shall submit the validated Contract Materials on 07/12/2020. The Date for Completion for this variation 49 is [REDACTED].
3. **Fee:**
 - a) The Fee is increased by lump sum amount of \$90,447.24 excl. GST as detailed in Table 1 below:

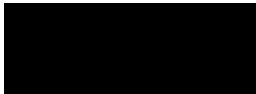
Role	Hours	Rate	Price
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation Manager	[REDACTED]	[REDACTED]	[REDACTED]
System Assurance	[REDACTED]	[REDACTED]	[REDACTED]
Design Management	[REDACTED]	[REDACTED]	[REDACTED]
Project Management	[REDACTED]	[REDACTED]	[REDACTED]
Total Fee for this variation			\$90,447.24

Table 1: Fee Breakdown

The Fee is revised to \$16,301,664.24 as detailed in Attachment A.

Please confirm Alstom's acceptance of this variation in the space provided below and return this notice in its entirety to Simmi Joseph via email to simmi.joseph@transport.nsw.gov.au.

Yours sincerely,



Yik Yen Chong
Principal's Representative
ATP Program

Dated:

Attachments:

- Attachment A – Revised Fee

Variation 49 for ISD-17-6378 AMS Area 4 and Area 5 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Fee

Variation Number	Description	Value
	Original Contract	\$6,558,326.09
1	Mobilisation & Commencement of Critical activities for Area 1,6,7,8 &9	\$0.00
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47	Incorporation of mod 074 - Area 4 Portion 2 (Hurstville) and Area 5 Portion 5 (Minnamurra) Defects Analysis and rectification	\$36,807.72
48	Area 5 Portion 6 Wollongong 270 Points relocation – MTMS (More Trains More Services) – Direction to Proceed	\$0.00
49	Area 5 Portion 6 Wollongong 270 Points relocation – MTMS (More Trains More Services) – This Variation	\$90,447.24
Contract Revised Sum		\$16,301,664.24