

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
Professional Services Contract (PSC) No ISD-16-6049
Subject: Variation No.1 – Additional Training for TfNSW Personnel**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter seeking a revision to information provided in TfNSW letter #5943815 dated 11 January 2018. This letter supersedes TfNSW's letter #5943815 in its entirety.

We refer to Alstom's original proposal (Ref: [REDACTED] dated 21 November 2017) in relation to additional training for TfNSW personnel. 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 scope includes for the additional training for TfNSW personnel to ensure competency in both data preparation and data validation roles.
2. Dates for Completion. There is no extension approved to the Dates for Completion of any Portion.
3. Contract Sum. The value of the lump sum component of the fee is increased by \$69,570.05 to a revised value of \$5,865,710.05 (excl. GST) as detailed in Table 1 below. The scope includes [REDACTED] per day over [REDACTED] weeks for both data preparation and data validation mentoring at a rate of [REDACTED] per hour excl GST.

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1 – Additional Training for TfNSW Personnel	\$69,570.05
Total Fee	\$5,865,710.05

Table 1: Total 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 TfNSW's Mr Glenn Walton via email (glenn.walton@transport.nsw.gov.au).

Please contact Glenn Walton either by phone (9422 0472) or via email should you have any queries regarding this matter.

Yours sincerely,



Peter Jones
Principal's Representative

Dated: 29/1/18

Variation 1 to ISD-16-6049 – Additional Training for TfNSW personnel is accepted for and behalf of Alstom Transport Australia Pty Ltd:

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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation No. 2 – Initial Services for Trackside Areas 4 & 5 Data Design**

We refer to tender reference no. ISD-17-6378 issued to Alstom Transport Australia Pty Limited ('**Alstom**') for the AMS Trackside Data Design for Areas 4 & 5 ('**Project**') and Alstom's corresponding proposal dated 29 November 2017.

Following Alstom's proposal and attendance at the Interactive Workshops held on 24 January and 1 February 2018, TfNSW advises that it is currently reviewing Alstom's proposal and forecasts a target contract signing date of 12 March 2018.

Concurrent to TfNSW's review and discussions with Alstom and with a view of safeguarding the Project's completion date, 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 commence with immediate effect, the critical items identified in its program for the Project, these predominately are, but not limited to commencement of the 'preparation and on-going updating of all Management Plans required under the Contract' (proposal item ref A1), training (proposal item ref A8), including any necessary recruitment ('**Initial Services**').

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 4 & 5 Data Design and the value of this variation will reduce to zero.

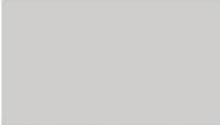
Infrastructure & Services

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



Would you please signify your acceptance of this variation 2 in the space provided below and return same in its entirety to TfNSW's Rajiv Garg via email (rajiv.garg@transport.nsw.gov.au).

Yours sincerely,



Peter Jones
Principal's Representative

Dated: 15/2/18

Variation 2 under ISD-16-6049 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Print Name: _____

Position: _____

Date: _____

ATP Letter Ref: 5958351
 Alstom Ref: [Redacted]
 [Redacted] and
 [Redacted]

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

Attention: [Redacted]

Dear [Redacted]

**Automatic Train Protection Program (ATP)
 AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
 Subject: Variation No. 2 – Approval of Variation 2**

We refer to Alstom’s above referenced correspondence dated 13 December 2017, 7 February 2018, and 26 February 2018 and the meeting of 22 February 2018 in relation to the TfNSW’s variation pricing request (ref: 5876645), dated 24 November 2017 and (ref: 5952990), dated 22 January 2018.

Further to this correspondence and pursuant to Clause 16.2 of the abovementioned agreement, TfNSW hereby varies the agreement subject to:

1. Scope of the Variation: This variation acknowledges and incorporates into the contract:
 - a) VP Part 1 Concept Design Review Report (CDRR) for Area 2 & 3 ATP;
 - b) VP Part 3 (CI 883) - Balise Group Linking Reaction;
 - c) VP Part 5 (CR 817) - Modification Requirements from ASA Meeting; and
 - d) VP Part 6 (CR 824) – Removal of AMS_TSR_425 and Modification of rational for AMS_TSR_297 due to defect 797.
2. Date for Completion: There is no change to the Date for Completion for any of the Portions under the above mentioned contract. It is noted that the Area 2&3 Schedule Change contained within Attachment A is not included within this variation approval.
3. Contract Sum: Pursuant to clause 16.3(a) the value of this variation is summarised in Table 1 and detailed in Attachment A.

Item Description	Value
CDR Updates	[Redacted]
CI 883	
CR 817	
CR 824	
Total Variation	\$530,833.23

Table 1: Variation Fee breakdown

- a) Revised Fee: Pursuant to clause 16.3(a) the value of the lump sum component of the Fee is increased by \$530,833.23 to a revised value of \$6,396,543.28 (excl. GST) as summarised in Table 2: Total Fee below.

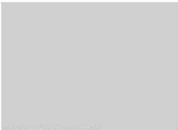
Original Fee	\$5,796,140.00
Variation No. 01	\$69,570.00
Variation No. 02 (this variation)	\$530,833.23
Total revised Fee	\$6,396,543.28

Table 2: Total Fee

All other terms and conditions of the Contract remain unchanged.

TfNSW requests Alstom's acceptance of this variation 2 by signing in the space provided below and returning it to TfNSW's Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Yours sincerely,



Peter Jones
Principal's Representative

Dated: 18/04/2018

Variation 2 under ISD-16-6049 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Position: _____

Date: _____



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

Attention: [Redacted]

Dear [Redacted]

**Automatic Train Protection Program (ATP)3
AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation No4 – Extension of Time**

We refer to Alstom’s above referenced correspondence dated 13 December 2017, 7 February 2018, and 26 February 2018 and the meeting of 22 February 2018 and 8 June 2018 in relation to the TfNSW’s variation pricing request (ref: 5876645), dated 24 November 2017 and (ref: 5952990), dated 22 January 2018 and previously issued TfNSW Variation Order ref: 5998351 dated 18 April 2018.

- 1. Further to this correspondence and pursuant to Clause 18.4 of the abovementioned agreement, TfNSW hereby extends the Date for Completion for the following Portions under the Deed. The Date for Completion for the Portions is changed as detailed in the below table and the Alstom submitted program version 3.2.

Portions	Current Dates for Completion	Revised Dates for Completion
1	[Redacted]	[Redacted]
2	[Redacted]	[Redacted]
3	[Redacted]	[Redacted]
4	[Redacted]	[Redacted]
5	[Redacted]	18/02/2019

Table 1: Date for Completion

- 2. Contract Sum: Pursuant to clause 16.3(a) the adjustment to the Fee associated with this Extension of Time is summarised in Table 2 below.

Item Description	Value
Preliminaries	[Redacted]

Infrastructure & Services
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

Item Description	Value
Non Portion Related-resource retention	
Total Variation	\$1,100,000.00

Table 2: Variation Fee breakdown

- a) Revised Fee: Pursuant to clause 16.3(a) the value of the lump sum component of the Fee is increased by \$1,100,000.00 to a revised value of \$7,496,543.28 (excl. GST) as summarised in Table 3: Total Fee below.

Original Fee	\$5,796,140.00
Variation No. 01	\$69,570.00
Variation No. 02	\$0
Variation No. 03	\$530,833.23
Variation No. 04 (this variation)	\$1,100,000
Total revised Fee	\$7,496,543.28

Table 3: Total Fee

All other terms and conditions of the Contract remain unchanged.

TfNSW requests Alstom's acceptance of this variation 4 by signing in the space provided on the following and returning it to TfNSW's Sam Prebble via email (sam.prebble@transport.nsw.gov.au).

Yours sincerely,



Peter Jones
Principal's Representative
ATP Program

Dated: 16/07/2018



Variation 4 under ISD-16-6049 is accepted for and behalf of Alstom Transport Australia Pty Ltd
by:

Signature: _____

Name: _____

Position: _____

Date: _____



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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
Professional Services Contract (PSC) No ISD-16-6049
Subject: Variation No.5 – Implementation of Portion 4 Design Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced proposal dated 28 September 2018 in relation to the incorporation of Portion 4 Signalling Modifications.

Further to this correspondence and pursuant to Clause 16.3(a) of the abovementioned Agreement, TfNSW issues this Variation Order 5 for the following:

1. Scope of the Variation: Implementation of Portion 4 Design modifications which include:
 - a) Performing the data design changes on [REDACTED] affected balises;
 - b) Changes to all phases including geo data processing, data preparation and data validation;
 - c) Resourcing requirements including design preparation manager, design preparation engineers, design validation manager and design validation engineer to perform these updates.
2. Dates for Completion: There is no adjustment to the Date for Completion as a result of this Variation.
3. Contract Sum.
 - a) The Value of this Variation Order is \$361,000.16 excl GST as described in Table 1 below.

Role	Hours	Hourly Rate	Price
Geo Data (DPE)			
DPE			
DPM			
DVA			
DVM			
DM			
Total:			\$361,000.16

Table 1: Variation Amount

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

b) The Contract Sum is revised to \$7,878,102.43 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: 26/02/2019

Variation 5 to ISD-16-6049 – Additional AMS Functions for Areas 2&3 is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Contract Sum

Description	Value
Original Contract Fee	\$5,796,140.00
Variation 1 – Additional Training	\$69,570.05
Variation 2 – Initial Services	\$0.00
Variation 3 – Concept design Review Updates	\$530,833.23
Variation 4 – EoT Preliminaries	\$1,100,000.00
Variation 5 : Implementation of Portion 4 Design Mods	\$361,000.16
Variation 6 : Level Transition Mods into data Design	TBA
Variation 7 : Implementation of Design Change Instructions	TBA
Variation 8 : Incorporation of CI 1499	TBA
Variation 9 : Incorporation of Portion 4 SUL 152800 Design Mods	\$20,558.99
Revised Contract Sum	\$7,878,102.43



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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 6 – Level Transition Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 25 February 2019 and previous TfNSW letter reference 6172604 dated 5 December 2018.

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

- a) Scope of the Variation: incorporation of the level transition modifications into the Contract Materials in accordance with the following documents previously issued under TfNSW's forementioned letter:

DOCUMENT No	TITLE	VERSION	DATE
ATP-DEDI-EM-000041.4	Portion 4 SP EXTRACT TERALBA TO CARDIFF	4	19/10/18
ATP-DEDI-EM-000131.1	Drivers Diagram	27092018	27/09/18
ATP-DEDI-EM-000132.1	SFC 130 Gosford S18159	26/10/18	26/10/18
ATP-DEDI-EM-000133.1	SFC 244 Fassifern (x) – Cockle Creek S18159	26/10/18	26/10/18
ATP-DEDI-EM-000134.1	SFC 262 Hornsby (x) – Berowra S18159	26/10/18	26/10/18
ATP-DEDI-EM-000135.1	CON_009	-	-
ATP-DEDI-EM-000136.1	Gosford – P6a stagework (implementation of temporary level transition border and virtual balise covers) Area 2	A	29/10/18
ATP-DEDI-EM-000137.1	Fassifern (excl) - Cockle Creek - P6a stagework (implementation of temporary level transition border and virtual balise covers) Area 3	A	29/10/18
ATP-DEDI-EM-000138.1	Berowra - P6a stagework (implementation of temporary level transition border and virtual balise covers) Area 2	A	29/10/18

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 \$264,974.33 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			
Total ex GST			\$264,974.33

Table 1: Fee Breakdown

- b) The Fee is revised to \$8,143,076.76 as described in Table 2 below:

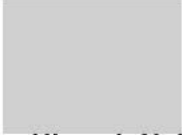
Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	TBA
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	TBA
Variation 11: Incorporation of Portion 2 Modifications	TBA
Revised Contract Sum	\$8,143,076.76

Table 2: 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: 24/06/2019

Variation 6 for Level Transition Modifications to ISD-16-6049 AMS Area 2 and Area 3 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 7– Portion 4 Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced letter dated 25 February 2019 and TfNSW's previous letter reference 6200922 dated 23 December 2018.

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

- a) Scope of the Variation: incorporation of Portion 4 modifications into the Contract Materials in accordance with the following documents previously issued under TfNSW's forementioned letter:

DOCUMENT No	TITLE	VERSION	DATE
ATP-DEDI-EM-000031.3.IFC	SFC 244 VO22	3	11/12/18
ATP-DEDI-EM-000039.6.IFR	SP P4 Hamilton incl to Newcastle Interchange Based on VO22	6	11/12/18
ATP-DEDI-EM-000040.6.IFR	SP P4 Broadmeadow Based on VO22	6	11/12/18
ATP-DEDI-EM-000041.5.IFR	SP P4 Teralba excl to Cardiff incl Based on VO22	5	11/12/18
ATP-DEDI-EM-000043.4.IFR	ET104 Based on VO22	4	11/12/18
ATP-DEDI-EM-000044.4.IFR	ET 59 Based on VO22	4	11/12/18
ATP-DEDI-EM-000045.5.IFR	ET 61 Based on VO22	5	11/12/18
ATP-DEDI-EM-000046.4.IFR	ET 107 Based on VO22	4	11/12/18
ATP-DEDI-EM-000047.4.IFR	ET 108 Based on VO22	4	11/12/18
ATP-DEDI-EM-000048.3.IFC	SCF 107A Based on VO22	4	11/12/18
ATP-DEDI-EM-000049.4.IFI	SCF 61 Based on VO22	3	11/12/18
ATP-DEDI-EM-	SCF 59 Based on VO22	4	11/12/18

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

DOCUMENT No	TITLE	VERSION	DATE
000050.3.IFC			
ATP-DEDI-EM-000051.5.IFC	SCF 180 Based on VO22	3	11/12/18
ATP-DEDI-EM-000052.4.IFC	SCF 104 Based on VO22	5	11/12/18
6168824	Basis of Design Variation Letter - Variation Order #VO22 Required Changes in the Portion 6a Area	1	05/11/18

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 \$519,951.45 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			\$519,951.45

Table 1: Fee Breakdown

- b) The Fee is revised to \$8,663,028.21 as described in Table 2 below:

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change	\$519,951.45

Description	Value (excl GST)
Instructions	
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	TBA
Variation 11: Incorporation of Portion 2 Modifications	TBA
Revised Contract Sum	\$8,663,028.21

Table 2: 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: 26/06/2019

Variation 7 for Portion 4 Modifications to ISD-16-6049 AMS Area 2 and Area 3 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____



ATP Letter Ref: 6228553
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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 9 - Portion 4 SUL152800 Design Modifications**

We refer to Alstom Transport Australia Pty Limited's (Alstom's) above referenced email to TfNSW's Himesh Nair.

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

- a) Scope of the Variation: incorporation of the Portion 4 SUL152800 Design Modifications into the Contract Materials in accordance with the following documents:

Document Title	Reference	Version
AMS Braking Tool for Trackside Design	2404726	3.6
54 Teralba (x) - Cardiff MOD AEO Approved		12/02/2019
Sulphide Junction Implementation of AMS Post COC Mod Area 3 Circuit Book No. 104	EDMS: 0013675	1
Sulphide Junction ETCS Balise and LEU Tables Implementation of AMS Area 3 ETCS TABLES: ET104		11/02/2019
Site Certification Form Sulphide Junction CB 104		11/02/2019

- 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 \$20,558.99 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Project Management	[REDACTED]	[REDACTED]	[REDACTED]
Design Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Engineer	[REDACTED]	[REDACTED]	[REDACTED]
Data Preparation Manager	[REDACTED]	[REDACTED]	[REDACTED]
Data Validation	[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 Rates	Hours	Price
Engineer			
Data Validation Manager			
System Assurance			
Independent Peer Reviewer			
Total ex GST			\$20,558.99

Table 1: Fee Breakdown

- b) The Fee is revised to \$7,878,102.43 as described in Table 2 below:

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	TBA
Variation 7: Implementation of Design Change Instructions	TBA
Variation 8: Incorporation of Change Instruction 1499	TBA
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Revised Contract Sum	\$7,878,102.43

Table 2: 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: 15/02/2019

Attachments:

- AMS Braking Tool for Trackside Design, Ref: 2404726, Version 3.6



- 54 Teralba (x) - Cardiff MOD 120219, AEO Approved 12/02/2019
- Sulphide Junction Implementation of AMS Post COC Mod Area 3 Circuit Book No. 104, EDMS:
0013675, 1
- Sulphide Junction ETCS Balise and LEU Tables Implementation of AMS Area 3 ETCS TABLES: ET104,
11/02/2019
- Site Certification Form Sulphide Junction CB 104, 11/02/2019

Variation 9 for Portion 4 SUL152800 Design Modifications to ISD-17-6378 AMS Area 2 and Area 3 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

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)
Data Design of ATP Area 2 and Area 3 (ISD-16-6049)
Subject: Variation 10 - Incorporate Area 2&3 D&C Contractor Portion 3 –
Design Documents (all mods + stage work)**

We refer to TfNSW's correspondence ref. 6252482 dated 27 March 2019 on the same topic and the subsequent communications regarding the modifications to Signalling Plan Package 3 and Signalling Design Package 3.

TfNSW advises that this letter contains all modifications for incorporation into the Data Design including the stage works to the Signalling Plan Package 3 and Signalling Design Package 3 from the initial baseline submission of Signalling Plan Package 3 ref. 5903241 dated 14 December 2017 and Signalling Design Package 3 ref 5939295 dated 21 December 2017.

TfNSW retracts the original letter ref:6252482 and replaces it in its entirety with this letter.

Pursuant to clause 16.2 of the abovementioned contract, TfNSW issues Variation 10 to Alstom to revise the Contract Materials for Portion 3 to align with the D&C Contractor's modifications to Signalling Plan Package 3 and Signalling Design Package 3 as described in the documents listed below (refer Attachment 1).

DOCUMENT No	TITLE	VERSION	DATE	FORMAT
ATP-TFNSW-EM-000088	WEB GIS FLAT FILE_ATP_ATP_Strathfield_Ne wcastle 190410	2	10/04/2019	CSV
MODIFICATION 1				
ATP-DEDI-EM-000010	SIGNALLING PLAN - WYEE (X)- AWABA (X)	3	18/05/2018	PDF
ATP-DEDI-EM-000012	SIGNALLING PLAN - WARNERVALE (X) - WYEE	3	18/05/2018	PDF
ATP-DEDI-EM-000013	SIGNALLING PLAN - TERALBA (X) - CARDIFF Extract	3	18/05/2018	PDF
ATP-DEDI-EM-000014	ETCS TABLES - ET063 MORISSET - ERARING (EXCL)	3	25/05/2018	PDF
ATP-DEDI-EM-000015	ETCS TABLES - ET071 WYONG (EXCL) - WYEE (EXCL)	3	25/05/2018	PDF
ATP-DEDI-EM-000016	ETCS TABLES - ET121	3	25/05/2018	PDF

	ERARING			
ATP-DEDI-EM-000018	ETCS TABLES - ET244 FASSIFERN (EXCL) - COCKLE CREEK	3	25/05/2018	PDF
ATP-DEDI-EM-000020	ETCS TABLES - ET099 AWABA	3	25/05/2018	PDF
ATP-DEDI-EM-000027	SITE CERTIFICATION FORMS - SCF063 MORISSET - ERARING (EXCL)	3	07/05/2018	PDF
ATP-DEDI-EM-000028	SITE CERTIFICATION FORMS - SCF071 WYONG (EXCL) - WYEE (EXCL)	2	07/05/2018	PDF
ATP-DEDI-EM-000032	SITE CERTIFICATION FORMS - SCF252 VALES POINT	2	24/04/2018	PDF
ATP-DEDI-EM-000033	SITE CERTIFICATION FORMS - SCF099 AWABA	2	07/05/2018	PDF
MODIFICATION 2				
ATP-DEDI-EM-000009	VO23 SP Ourimbah to Warnervale	4	20/03/2019	PDF
ATP-DEDI-EM-000010	VO23 SP Wyee to Awaba	6	20/03/2019	PDF
ATP-DEDI-EM-000013	VO23 Teralba to Cardiff	6	15/03/2019	PDF
ATP-DEDI-EM-000014	VO23 ET 6	4	15/03/2019	PDF
ATP-DEDI-EM-000015	VO23 ET 71	4	15/03/2019	PDF
ATP-DEDI-EM-000027	VO23 SCF 63	4	15/03/2019	PDF
ATP-DEDI-EM-000028	VO23 SCF 71	3	15/03/2019	PDF
ATP-DEDI-EM-000123	GRADIENT OUTPUT TABLES - PORTION 3	2	22/03/2019	MS Excel
ATP-DEDI-EM-000191	HRSSR ERA TOOL V3.6 PORTION 3 (140.165KM - 125.680KM).zip	3.6	-	MS Excel
-	ERA Calculations	3.6	18/02/2019	MS Excel
P6B STAGE WORKS				
ATP-DEDI-EM-000187	CB012, CB104 & CB244 (P6B STAGEWORK).pdf	1	20/03/2019	PDF
ATP-DEDI-EM-000188	ETCS TABLES - ET012 WYONG (P6B STAGEWORK).pdf	1	15/03/2019	PDF
ATP-DEDI-EM-000189	ETCS TABLES - ET244 FASSIFERN (EXCL) - COCKLE CREEK (P6B STAGEWORK).pdf	1	20/03/2019	PDF
ATP-DEDI-EM-000190	SITE CERTIFICATION FORMS - SCF012 WYONG (P6B STAGEWORK).pdf	1	15/03/2019	PDF

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 sign and return the attached ATP document transmittal V168_20190412 on receipt of the revised Signalling Plan and Signalling Design Package for Portion 3.

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

Yours sincerely

Himesh Nair
Principal's Representative
ATP Program

Date 15/04/2019

Attachments:

- *Attachment 1:* 6262110_3- Area 2-3 portion 3 - D&C Design pack (all mods + Stagework)
- *Attachment 2:* 6262107_2- ATP Document Transmittal and Receipt Voucher – V168_20190412



ATP Letter Ref: 6330962

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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation Order #11– Incorporate Area 2&3 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 letters reference 6277629 dated 31 May 2019 and reference 6289686 dated 4 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 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 \$533,117.10 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
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]
Total ex GST			\$533,117.10

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 \$9,703,314.97 as described in Attachment A.

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: 26/08/2019

Attachments:

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

Attachment B – Revised Fee

Variation 11 for Portion 2 Modifications to ISD-16-6049 AMS Area 2 and Area 3 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
Baseline (March 2018)				
ATP-DEDI-EM-000055	Portion 2 SP Signalling Plan - Gosford (excl) - Ourimbah (incl)	V1	23/2/18	pdf
ATP-DEDI-EM-000056	Portion 2 SP Signalling Plan - Gosford	V1	23/2/18	pdf
ATP-DEDI-EM-000057	Portion 2 SP Signalling Plan - Ourimbah (excl) - Warnervale (excl)	V1	23/2/18	pdf
ATP-DEDI-EM-000058	Portion 2 SP Signalling Plan – Woy Woy (excl) - Gosford (excl) NIF Point Clare Installs	V1	23/2/18	pdf
ATP-DEDI-EM-000059	Portion 2 SP Signalling Plan – Hawkesbury River (excl) – Woy Woy (excl)	V1	27/2/18	pdf
ATP-DEDI-EM-000060	Portion 2 CT ET 12	V2	6/3/18	pdf
ATP-DEDI-EM-000061	Portion 2 CT ET 130	V2	6/3/18	pdf
ATP-DEDI-EM-000062	Portion 2 CT ET 131	V2	6/3/18	pdf
ATP-DEDI-EM-000063	Portion 2 CT ET 70	V2	6/3/18	pdf
ATP-DEDI-EM-000067	Portion 2 SCF 131	V1	6/3/18	pdf
ATP-DEDI-EM-000068	Portion 2 SCF 12	V1	6/3/18	pdf
ATP-DEDI-EM-000069	Portion 2 SCF 70	V1	6/3/18	pdf
ATP-DEDI-EM-000071	Portion 2 CB 12	V1	6/3/18	pdf
ATP-DEDI-EM-000072	Portion 2 CB 130	V1	21/3/18	pdf
ATP-DEDI-EM-000073	Portion 2 CB 131	V1	6/3/18	pdf
ATP-DEDI-EM-000074	Portion 2 CB 70	V1	21/3/18	pdf
ATP-DEDI-EM-000105	Portion 2 SCF 130	V1	24/4/18	pdf
Mod 1 (May 2018)				
ATP-DEDI-EM-000055	Portion 2 SP Signalling Plan - Gosford (excl) - Ourimbah (incl)	V2	18/5/18	pdf
ATP-DEDI-EM-000056	Portion 2 SP Signalling Plan - Gosford	V2	18/5/18	pdf
ATP-DEDI-EM-000060	Portion 2 CT ET 12	V3	25/5/18	pdf
ATP-DEDI-EM-000061	Portion 2 CT ET 130	V3	25/5/18	pdf
ATP-DEDI-EM-000062	Portion 2 CT ET 131	V3	25/5/18	pdf
ATP-DEDI-EM-000063	Portion 2 CT ET 70	V3	18/5/18	pdf
ATP-DEDI-EM-000072	Portion 2 CB 130	V2	18/5/18	pdf
ATP-DEDI-EM-000074	Portion 2 CB 70	V2	18/5/18	pdf
Mod 2 (October 2018)				
ATP-DEDI-EM-000058	Portion 2 SP Signalling Plan – Woy Woy (excl) - Gosford (excl) NIF Point Clare Installs	V2	29/10/18	pdf
ATP-DEDI-EM-000058	Portion 2 SP Signalling Plan - Woy Woy (excl) - Gosford (excl) NIF Point Clare Installs	V3	26/11/18	pdf
ATP-DEDI-EM-000059	Portion 2 SP Signalling Plan – Hawkesbury River (excl) – Woy Woy (incl)	V2	26/11/18	pdf
Mod 3 (May 19)				
ATP-DEDI-EM-000058	Portion 2 SP Signalling Plan - Woy Woy (excl) - Gosford (excl) NIF Point Clare Installs	V4	24/5/19	pdf
ATP-DEDI-EM-000059	Portion 2 SP Signalling Plan - Hawkesbury River (excl) – Woy Woy (incl)	V3	24/5/19	pdf
ATP-DEDI-EM-000069	Portion 2 SCF 70	V2	20/5/19	pdf
ATP-DEDI-EM-000196	Portion 2 SCF 70 – Site Certification Forms - SCF070 Hawkesbury River (excl) Gosford (excl) (P6C Stagework)	V1	20/5/19	pdf
Additional Documentation				
ATP-DEDI-EM-000094	DR Sheet – Area 2& 3 Portion 2	V6	14/5/18	Doc & pdf
ATP-TFNSW-EM-000088	WEBGIS Flat File_ATP_ATP_Strathfield_Newcastle 190410	V2	10/04/19	csv

DOCUMENT No	TITLE	VERSION	DATE	FORMAT
Baseline (March 2018)				
ATP-DEDI-EM-000055	Portion 2 SP SIGNALLING PLAN - GOSFORD (EXCL) - OURIMBAH (INCL)	V1	23/2/18	pdf
ATP-DEDI-EM-000056	Portion 2 SP SIGNALLING PLAN - GOSFORD	V1	23/2/18	pdf
ATP-DEDI-EM-000057	Portion 2 SP SIGNALLING PLAN - OURIMBAH (EXCL) - WARNERVALE (EXCL)	V1	23/2/18	pdf

DOCUMENT No	TITLE	VERSION	DATE	FORMAT
ATP-DEDI-EM-000058	Portion 2 SP SIGNALLING PLAN - WOY WOY (EXCL) - GOSFORD (EXCL) NIF Point Clare Installs	V1	23/2/18	pdf
ATP-DEDI-EM-000059	Portion 2 SP SIGNALLING PLAN - HAWKESBURY RIVER (EXCL) - WOY WOY (INCL)	V1	27/2/18	pdf
ATP-DEDI-EM-000060	Portion 2 CT ET 12	V2	6/3/18	pdf
ATP-DEDI-EM-000061	Portion 2 CT ET 130	V2	6/3/18	pdf
ATP-DEDI-EM-000062	Portion 2 CT ET 131	V2	6/3/18	pdf
ATP-DEDI-EM-000063	Portion 2 CT ET 70	V2	6/3/18	pdf
ATP-DEDI-EM-000067	Portion 2 SCF 131	V1	6/3/18	pdf
ATP-DEDI-EM-000068	Portion 2 SCF 12	V1	6/3/18	pdf
ATP-DEDI-EM-000069	Portion 2 SCF 70	V1	6/3/18	pdf
ATP-DEDI-EM-000071	Portion 2 CB 12	V1	6/3/18	pdf
ATP-DEDI-EM-000072	Portion 2 CB 130	V1	21/3/18	pdf
ATP-DEDI-EM-000073	Portion 2 CB 131	V1	6/3/18	pdf
ATP-DEDI-EM-000074	Portion 2 CB 70	V1	21/3/18	pdf
ATP-DEDI-EM-000105	Portion 2 SCF 130	V1	24/4/18	pdf
Mod 1 (May 2018)				
ATP-DEDI-EM-000055	Portion 2 SP SIGNALLING PLAN - GOSFORD (EXCL) - OURIMBAH (INCL)	V2	18/5/18	pdf
ATP-DEDI-EM-000056**	Portion 2 SP SIGNALLING PLAN - GOSFORD	V3	18/5/18	pdf
ATP-DEDI-EM-000060	Portion 2 CT ET 12	V3	25/5/18	pdf
ATP-DEDI-EM-000061	Portion 2 CT ET 130	V3	25/5/18	pdf
ATP-DEDI-EM-000062	Portion 2 CT ET 131	V3	25/5/18	pdf
ATP-DEDI-EM-000063	Portion 2 CT ET 70	V3	18/5/18	pdf
ATP-DEDI-EM-000072	Portion 2 CB 130	V2	18/5/18	pdf
ATP-DEDI-EM-000074	Portion 2 CB 70	V2	18/5/18	pdf
Mod 2 (October 2018)				
ATP-DEDI-EM-000058	Portion 2 SP SIGNALLING PLAN - WOY WOY (EXCL) - GOSFORD (EXCL) NIF Point Clare Installs	V2	29/10/18	pdf
ATP-DEDI-EM-000058	Portion 2 SP SIGNALLING PLAN - WOY WOY (EXCL) - GOSFORD (EXCL) NIF Point Clare Installs	V3	26/11/18	pdf
ATP-DEDI-EM-000059	Portion 2 SP SIGNALLING PLAN - HAWKESBURY RIVER (EXCL) - WOY WOY (INCL)	V2	26/11/18	pdf
Mod 3 (May 19)				
ATP-DEDI-EM-000058	Portion 2 SP SIGNALLING PLAN - WOY WOY (EXCL) - GOSFORD (EXCL) NIF Point Clare Installs	V4	24/5/19	pdf
ATP-DEDI-EM-000059	Portion 2 SP SIGNALLING PLAN - HAWKESBURY RIVER (EXCL) - WOY WOY (INCL)	V3	24/5/19	pdf
ATP-DEDI-EM-000063*	Portion 2 CT ET 70	V4	3/6/19	pdf
ATP-DEDI-EM-000069	Portion 2 SCF 70	V2	20/5/19	pdf
ATP-DEDI-EM-000196	Portion 2 SCF 70 - SITE CERTIFICATION FORMS - SCF070 HAWKESBURY RIVER (EXCL) - GOSFORD (EXCL) (P6C STAGWORK)	V1	20/5/19	pdf
ATP-DEDI-EM-000198*	Stagework Portion 2 CT ET 70	V1	03/06/19	pdf
Additional Documentation				
ATP-DEDI-EM-000094	DR Sheet – Area 2& 3 Portion 2	V6	14/5/18	Doc & pdf
ATP-TFNSW-EM-000088	WEBGIS Flat File ATP ATP Strathfield Newcastle 190410	V2	10/04/19	csv
ATP-DEDI-EM-000122*	Gradient Output Tables - Portion 2	V2	24/05/19	Pdf & excel

Attachment B - Revised Fee

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,169.66
Variation 11: Incorporation of Portion 2 Modifications –This VO	\$533,117.10
Variation 12 : Incorporation of Portion 1 Modifications	TBA
Revised Contract Sum	\$9,703,314.97

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

Attention: [REDACTED]

Dear [REDACTED]

**Automatic Train Protection Program (ATP)
AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Approval for Variation 13 – Unproductive Time Delays to Signalling
Design**

We refer to Alstom’s above referenced proposal dated 18 June 2019. Further to this correspondence and pursuant to clause 16.3 (a) of the above-mentioned Deed, TfNSW issues this Variation 13 for the following:

1. Scope of Variation: the scope includes the additional costs for the unproductive time due to the issuance of the Signalling Design during the period March 2018 – May 2018.
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 \$382,590.00 excl GST as described in Table 1 below;

Role	Rate	Hours	Price
Data Engineers	[REDACTED]	[REDACTED]	[REDACTED]
	Total	2,943	\$382,590.00

Table 1

- b) The Fee is revised to a value of \$10,085,904.97 as detailed in Attachment A.

Note: The rate of \$ [REDACTED] 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 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 Sam Prebble should you require further clarification on this subject matter.

Yours sincerely,

pp.

Himesh Nair
Principal's Representative
ATP Program

Dated: 10/10/2019

Attachments:
Attachment A – Fee

Variation 13 – Unproductive time due to delayed inputs– Receipt of variation 13 is accepted for and behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Fee

Description	Value (excl GST)
Original Contract Sum	5,796,140.00
Variation 1: Additional Training	69,570.05
Variation 2: Initial Services	0.00
Variation 3: Concept Design Review Updates	530,833.23
Variation 4: EoT Preliminaries	1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	361,000.16
Variation 6: Level Transition Modifications	264,974.33
Variation 7: Implementation of Design Change Instructions	519,951.45
Variation 8: Incorporation of Change Instruction 1499	\$0.00
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	20,558.99
Variation 10: Incorporate Area 2&3 D&C Contractor Portion 3 Modifications & Stageworks	507,169.66
Variation 11: Incorporate Area 2&3 D&C Contractor Portion 2 Modifications & Stageworks	533,117.10
Variation 12: Incorporate Area 2&3 D&C Contractor Portion 1 Modifications & Stageworks - Estimated Cost	TBA
Variation 13: Unproductive Costs for Delayed Inputs – This Variation	382,590.00
Variation 14: D-Link Portion 3 Re-work	0.00
Revised Fee	\$10,085,904.97



ATP Letter Ref: 6341737
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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 15 – 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]
SIT	[REDACTED]	[REDACTED]
5	[REDACTED]	3 July 2020

Table 1

The Fee is increased by \$983,823.27 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] to [REDACTED] the [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total ex GST			\$983,823.27

Table 2

The Fee is revised to \$11,069,728.24 as described in Table 3 below:

Description	Value (excl GST)
Original Contract Sum	5,796,140.00
Variation 1: Additional Training	69,570.05
Variation 2: Initial Services for Areas 1, 6 - 9	0.00
Variation 3 : Concept Design Review Updates	530,833.23
Variation 4: EoT Preliminaries	1,100,000.00

Description	Value (excl GST)
Variation 5: Implementation of Portion 4 Design Modifications	361,000.16
Variation 6: Level Transition Modifications	264,974.33
Variation 7 : Implementation of Design Change Instructions	519,951.45
Variation 8: Incorporation of Change Instruction 1499	TBA
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	20,558.99
Variation 10: Incorporate Area 2&3 D&C Contractor Portion 3 Modifications & Stageworks	507,169.66
Variation 11: Incorporate Area 2&3 D&C Contractor Portion 2 Modifications & Stageworks	533,117.10
Variation 12: Incorporate Area 2&3 D&C Contractor Portion 1 Modifications & Stageworks	TBA
Variation 13: Unproductive Costs for Delayed Inputs	382,590.00
Variation 14: D-link Portion 3 Modifications	0.00
Variation 15: Revised date for Completion and PM costs – This Variation	983,823.27
Revised Fee	\$11,069,728.24

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: 17/10/2019

Variation 15 for the extension of time to the Date for Completion and associated project management costs to ISD-16-6049 AMS Area 2 and Area 3 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

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 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 12– Incorporate Area 2&3 D&C Contractor Portion 1
Modifications and Stageworks**

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 6298417 dated 22 July 2019, reference 6319734 dated 31 July 2019, reference 6325988 dated 8 August 2019, reference 6329963 dated 21 August 2019, reference 6339705 dated 6 September 2019 and reference 6372199 dated 29 November 2019.

Further to this correspondences 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 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.
3. Contract Sum:
 - a) The Fee is increased by \$455,028.50 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
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]
Total ex GST			\$455,028.50

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 \$11,524,756.74 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. Sam Prebble via email to sam.prebble@transport.nsw.gov.au.

Yours sincerely,



Himesh Nair
Principal's Representative
ATP Program

Dated: 08/01/20

Attachments:

Attachment A - Variation 12 – Part 6 - Additional Signalling Design Inputs Portion 1 –D&C Signalling Design Changes (DS # 6372199)
Attachment B – Revised Fee

Variation 12 for Portion 1 Modifications to ISD-16-6049 AMS Area 2 and Area 3 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-DEDI-EM-000007	Area 2 Portion 1 SP Cowan (INCL) - Hawkesbury River (INCL) (45.5Km-62.5Km)	V7	31/10/2019	Pdf
ATP-DEDI-EM-000023	Area 2 Portion 1 SCF477 Hawkesbury River	V7	31/10/2019	Pdf & xls
ATP-DEDI-EM-000024	Area 2 Portion 1 SCF478 Cowan	V7	31/10/2019	Pdf & xls
ATP-DEDI-EM-000021	Area 2 Portion 1 ET477 Cowan (excl) - Hawkesbury River	V5	31/10/2019	Pdf
ATP-DEDI-EM-000022	Area 2 Portion 1 ET478 Cowan	V6	31/10/2019	Pdf
ATP-DEDI-EM-000121	Area 2 Portion 1 - Simplified Gradient Output - 26.10.2019 - AEO Approved.pdf	V3	31/10/2019	Pdf & xls
ATP-DEDI-EM-000208	Area 2 Portion 1 HRSSR ERA - DNNM v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000209	Area 2 Portion 1 HRSSR ERA - UPNM v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000210	Area 2 Portion 1 ERA DEFICIENT OVERLAP v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000211	Area 2 Portion 1 ERA HRTO v3.6	V2	31/10/2019	xls
6024186	TfNSW DR Sheet_V6.9 Area 23 DC Portion SP ETCS Tables	V12	08/11/2019	xls

Attachment B - Revised Fee

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,169.66
Variation 11: Incorporation of Portion 2 Modifications – This VO	\$533,117.10
Variation 12 : Incorporation of Portion 1 Modifications – This VO	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	382,590.00
Variation 14: D-link Portion 3 Modifications	0.00
Variation 15: Revised date for Completion and PM costs	983,823.27
Variation 16: Incorporation of Design modifications for SIT area and KAMF	TBA
Revised Contract Sum	\$11,524,756.74

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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 16 – Incorporation of Design Modifications for SIT Area - Final**

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 6343453 dated 04 November 2019 and TfNSW letters reference 6373360, dated 13 November 2019; and reference 6385106, dated 04 December 2019.

Further to these correspondences 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 Design Modifications for SIT Area into the Contract Materials in accordance with the revised Signalling Plan Package and Signalling Design Package documents previously issued under TfNSW’s aforementioned letters and as listed in Attachment A.
2. Date for Completion: there is no change to the Date for Completion as a result of this variation.
3. Contract Sum:
 - a) The Fee is increased by \$481,171.17 excl GST for this variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
[REDACTED]			
Total ex GST			\$481,171.17

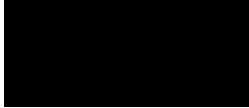
Table 1: Fee Breakdown



b) The Fee is revised to \$12,543,731.93 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,



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

Dated: 09/03/20

Attachments:

Attachment A – Revised Signalling Plan Package and Signalling Design Package for the SIT Area

Attachment B – Revised Fee

Variation 16 for the SIT Area Modifications to ISD-16-6049 AMS Area 2 and Area 3 Trackside Data Design is accepted for and behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A – Revised Signalling Plan Package and Signalling Design Package for the SIT Area

Document No	Title	Version	AEO Approved Date	Format
ATP-DEDI-EM-000222 (ATP-DEDI-EM-000057)	SIGNALLING PLAN – OURIMBAH (EXCL) – WARNERVALE (INCL) (SIT UPGRADE)	3	28/11/2019	Pdf
ATP-DEDI-EM-000224 (ATP-DEDI-EM-000055)	SIGNALLING PLAN – GOSFORD (EXCL) – OURIMBAH (INCL) (SIT UPGRADE)	3	28/11/2019	Pdf
ATP-DEDI-EM-000229 (ATP-DEDI-EM-000060)	ETCS TABLES – ET012 WYONG (SIT UPGRADE)	3	28/11/2019	Pdf
ATP-DEDI-EM-000231 (ATP-DEDI-EM-000062)	ETCS TABLES – ET131 GOSFORD (EXCL) – WYONG (EXCL) (SIT UPGRADE)	3	28/11/2019	Pdf
ATP-DEDI-EM-000225 (ATP-DEDI-EM-000068)	SITE CERTIFICATION FORMS – SCF012 WYONG (SIT UPGRADE)	4	25/11/2019	Pdf & xls
ATP-DEDI-EM-000226 (ATP-DEDI-EM-000067)	SITE CERTIFICATION FORMS – SCF131 GOSFORD (EXCL) – WYONG (EXCL) (SIT UPGRADE)	4	25/11/2019	Pdf & xls
6340281_9	TfNSW DR Sheet_v1.8 Area 23 DC Area 2 SIT SP ETCS Tables SCFs CB (TfNSW Updates)	V1.8	19/11/2019	xls

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,109.03
Variation 11: Incorporation of Portion 2 Modifications	\$533,056.47
Variation 12 : Incorporation of Portion 1 Modifications	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	\$ 382,590.00
Variation 14: D-link Portion 3 Modifications	\$ 0.00
Variation 15: Revised date for Completion and PM costs	\$ 983,823.27
Variation 16: Incorporation of Design modifications for SIT area – This Variation	\$481,171.17
Variation 17: Unproductive Costs for Delayed inputs (Apr-September 2019)	\$485,875.00
Variation 18: Portion 2 –Signal 46.1 Location modifications - AEO Approved	\$52,050.28
Revised Contract Sum	\$12,543,731.93

ATP Letter Ref: 6352850
 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 2 and Area 3 Trackside Data Design (ISD-16-6049)
 Subject: Approval for Variation 17 – Unproductive time due to delayed detailed
 Signalling Designs [REDACTED]**

TfNSW makes reference to the following:

1. TfNSW’s letter ref. 6250842 dated 10 April 2019, wherein TfNSW notified Alstom of the revised Design Due Dates; and
2. Alstom’s letters referenced above wherein Alstom submitted a claim, for the extra costs incurred by Alstom during the months of [REDACTED] to [REDACTED] (inclusive) resulting from delays in receiving Design Package by the Design Due Date(s) under the Agreement.

Further to the above, TfNSW acknowledges that Alstom has incurred extra costs associated with the Design Personnel due to TfNSW’s delays in providing the Design Package by the relevant Design Due Date.

Pursuant to clause 16.3(a) of the above-mentioned Agreement, TfNSW issues this Variation order 17 to compensate Alstom for these additional costs associated with the Design Personnel incurred in the period [REDACTED] to [REDACTED] (refer table 1) and adjusts the Fee by a lump sum amount of \$485,875.00:

Month	Rate	Unproductive Man-hours	Amount
[REDACTED]			
Total			\$485,875.00

Table 1



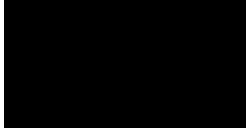
Note: The rate of [REDACTED] per hour has been applied to these resources which is the agreed rate for the application of un-productive resource time.

The Fee is adjusted to a total value of \$12,491,681.65 as detailed in Attachment A.

Alstom is requested to acknowledge their acceptance of this Variation 17 in the space provided below and return this Variation 17 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: 30/01/20

Attachments:
Attachment A – Revised Fee

Variation 17– Unproductive time due to delayed inputs– Receipt of variation 17 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	5,796,140.00
Variation 1: Additional Training	69,570.05
Variation 2 : Initial Services	\$0.00
Variation 3 : Concept Design Review Updates	530,833.23
Variation 4: EoT Preliminaries	1,100,000.00
Variation 5 : Implementation of Portion 4 Design Modifications	361,000.16
Variation 6: Level Transition Modifications	264,974.33
Variation 7 : Implementation of Design Change Instructions	519,951.45
Variation 8: Incorporation of Change Instruction 1499	\$0.00
Variation 9 : Incorporation of Portion 4 SUL152800 Design Modification	20,558.99
Variation 10 : Incorporate Area 2&3 D&C Contractor Portion 3 Modifications & Stageworks	507,109.03
Variation 11 : Incorporate Area 2&3 D&C Contractor Portion 2 Modifications & Stageworks	533,056.47
Variation 12 : Incorporate Area 2&3 D&C Contractor Portion 1 Modifications & Stageworks	455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	382,590.00
Variation 14: D-link Portion 3 Rework	\$0.00
Variation 15: Revised date for Completion, unproductive time and PM costs	983,823.27
Variation 16: Incorporation of Design modifications for SIT area and KAMF	TBA
Variation 17 : Unproductive Costs for Delayed Inputs – This Variation	485,875.00
Revised Fee	12,491,681.65

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 2 and Area 3 (ISD-16-6049)
Subject: Variation 18 - Portion 2 –Signal 46.1 Location Modification – AEO
Approved**

TfNSW refers to Alstom’s letter referenced above dated 03 March 2020 wherein Alstom had submitted a detailed estimate of the costs for incorporation of the signal location 46.1 modifications in Portion 2 (‘Variation Proposal’).

Further to your above letter, TfNSW advises that it has assessed and accepts the Variation Proposal to undertake reworks to the Contract Material for Portion 2 as requested by TfNSW in letter ref. 6359568 dated 22 October 2019.

1. Scope of Variation: Incorporation of signal location 46.1 design modifications, arising from the below changes to the Signalling Design relating to Signalling Design Package 2 and Signalling Plan Package 2:
 - a) Removal of an ETCS train stop controlled balise at signal location 46.1; and
 - b) Linking connection with the adjacent balises and integration with the overall ATP system.

The updated Signalling Design documentation for Portion 2 modifications - Removal of ETCS Trainstop Signal 46.1 Signalling Designs - AEO Approved is attached and was previously issued to Alstom via Team Binder on 31 January 2020 ref. no. ATP-TFNSW-ALS-CORR-000128. A copy of the correspondence is attached (refer 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 \$52,050.28 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
[REDACTED]			



Role	Hourly Rates	Hours	Price
Total ex GST			\$52,050.28

Table 1: Fee Breakdown

b) The Fee is revised to \$12,062,560.76 as described in Attachment B.

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

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; and
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.

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

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

Date 06/03/20

Attachments:

- Attachment A: Updated Signalling Design documentation for Portion 2 modifications – Removal of ETCS Trainstop Signal 46.1 Signalling Designs - AEO Approved
- Attachment B: Revised Fee
- Attachment C: Document Correspondence ATP-TFNSW-ALS-CORR-000128



Variation 18– Portion 2 – Signal 46.1 Location Modification – AEO Approved– Receipt of variation 18 is acknowledged on behalf of Alstom Transport Australia Pty Ltd by:

Signature: _____

Name: _____

Title: _____

Date: _____

**Attachment A - Updated Signalling Design documentation for Portion 2 modifications –
Removal of ETCS Trainstop Signal 46.1 Signalling Designs - AEO Approved**

DOCUMENT No	TITLE	VE RSI ON	DATE	FOR MAT
ATP-DEDI-EM-000058	SIGNALLING PLAN - WOY WOY (EXCL) - GOSFORD (EXCL) New	V7	23/01/2020	pdf
ATP-DEDI-EM-000074	CIRCUIT BOOK - CB070 HAWKESBURY RIVER (EXCL) - GOSFORD (EXCL)	V9	24/01/2020	pdf
ATP-DEDI-EM-000063	ETCS TABLES - ET070 HAWKESBURY RIVER (EXCL) - GOSFORD (EXCL)	V6	23/01/2020	pdf
ATP-DEDI-EM-000069	SITE CERTIFICATION FORMS - SCF070 HAWKESBURY RIVER (EXCL) - GOSFORD (EXCL)	V5	23/01/2020	pdf
6024183	TfNSW DR Sheet_v8.5 Area 23 DC Portion 2 Open TfNSW Comments 46.1	12	31/01/2020	Xls

Attachment B – Revised Fee

Description	Value (excl GST)
Original Contract Sum	5,796,140.00
Variation 1: Additional Training	69,570.05
Variation 2 : Initial Services	\$0.00
Variation 3 : Concept Design Review Updates	530,833.23
Variation 4: EoT Preliminaries	1,100,000.00
Variation 5 : Implementation of Portion 4 Design Modifications	361,000.16
Variation 6: Level Transition Modifications	264,974.33
Variation 7 : Implementation of Design Change Instructions	519,951.45
Variation 8: Incorporation of Change Instruction 1499	\$0.00
Variation 9 : Incorporation of Portion 4 SUL152800 Design Modification	20,558.99
Variation 10 : Incorporate Area 2&3 D&C Contractor Portion 3 Modifications & Stageworks	507,109.03
Variation 11 : Incorporate Area 2&3 D&C Contractor Portion 2 Modifications & Stageworks	533,056.47
Variation 12 : Incorporate Area 2&3 D&C Contractor Portion 1 Modifications & Stageworks	455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	382,590.00
Variation 14: D-link Portion 3 Rework	\$0.00
Variation 15: Revised date for Completion, unproductive time and PM costs	983,823.27
Variation 16: Incorporation of Design modifications for SIT area and KAMF	TBA
Variation 17 : Unproductive Costs for Delayed Inputs	485,875.00
Variation 18: Portion 2 – Signal 46.1 Location Modification – This Variation	52,050.28
Revised Fee	12,062,560.76



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 2 and Area 3 (ISD-16-6049) (Agreement)
Subject: Variation 19 – Incorporation of Modifications post Network
Integration Testing (NIT) - Final**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letter dated 26 March 2020 and TfNSW’s previous letter reference 6434522 dated 11 March 2020.

Further to these correspondences 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 Modifications post NIT testing into the Contract Materials for Area 2, in accordance with the RFI-036 (attached).
2. Date for Completion: there is no change to the Date for Completion as a result of this variation.
3. Contract Sum:
 - a) The Fee is increased by \$19,504.38 excl GST for this variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
[REDACTED]			
Total ex GST			\$19,504.38

Table 1: Fee Breakdown



b) The Fee is revised to \$12,563,236.31 as described in Attachment A.

All other terms and conditions of the Agreement remain unchanged.

Would you please signify Alstom's acceptance of this variation 19 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



Himesh Nair
Principal's Representative
ATP Program

Date 31/03/20

Attachments:

- 0319 AMS-TRK23 A-0000187036_9A AMS-TRK23-RFI-036 PORTION 1 CLARIFICATION ON
DETAIL DESIGN v9.0

Variation 19 for Area 2&3 – Area2 NIT under Contract ISD-16-6049 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	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,109.03
Variation 11: Incorporation of Portion 2 Modifications	\$533,056.47
Variation 12 : Incorporation of Portion 1 Modifications	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	\$ 382,590.00
Variation 14: D-link Portion 3 Modifications	\$ 0.00
Variation 15: Revised date for Completion and PM costs	\$ 983,823.27
Variation 16: Incorporation of Design modifications for SIT area	\$481,171.17
Variation 17: Unproductive Costs for Delayed inputs (Apr-December 2019)	\$485,875.00
Variation 18: Portion 2 –Signal 46.1 Location modifications – AEO Approved	\$52,050.28
Variation 19: Incorporation of Modifications post NIT testing – This Variation	\$19,504.38
Revised Contract Sum	\$12,563,236.31

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 2 and Area 3 (ISD-16-6049) (Agreement)
Subject: Variation 20 – UPDATED - Portion 2 –Signal 46.1 Location
Modification Due to AEO Approved Signalling Design**

TfNSW makes reference to TfNSW’s letter ref. 6441351 dated 06 March 2020, wherein TfNSW notified Alstom of further Signalling modifications due to the issuance of the AEO approved Signalling Design, and Alstom’s above referenced letter, dated 2 April 2020. Pursuant to clause 16.3(a) of the above-mentioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of Variation: Incorporation of additional modifications required due to Portion 2 AEO Signalling Design inputs, which included;
 - a) Updating Data for 3BG in total for linking; and
 - b) Combining Packet 12 and Packet 12R in a single Packet for BG (WOY439_DNNM).
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 \$20,515.31 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
[REDACTED]			
Total ex GST			\$20,515.31

Table 1: Fee Breakdown

b) The Fee is revised to \$12,583,751.62 as described in Attachment A.

All other terms and conditions of the Agreement remain unchanged.

Would you please signify Alstom's acceptance of this variation 20 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



Himesh Nair
Principal's Representative
ATP Program

Date 17/04/20

Attachments:

- Attachment A: Revised Fee

Variation 20 for Area 2&3 – Portion 2 – Signal 46.1 location modification due to AEO approved copies under Contract ISD-16-6049 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	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,109.03
Variation 11: Incorporation of Portion 2 Modifications	\$533,056.47
Variation 12: Incorporation of Portion 1 Modifications	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	\$ 382,590.00
Variation 14: D-link Portion 3 Modifications	\$ 0.00
Variation 15: Revised date for Completion and PM costs	\$ 983,823.27
Variation 16: Incorporation of Design modifications for SIT area	\$481,171.17
Variation 17: Unproductive Costs for Delayed inputs (Apr-December 2019)	\$485,875.00
Variation 18: Portion 2 –Signal 46.1 Location modifications – AEO Approved	\$52,050.28
Variation 19: Incorporation of Modifications post NIT testing	\$19,504.38
Variation 20: Portion 2 –Signal 46.1 Location modifications – due to AEO approved copies – This Variation	\$20,515.31
Revised Contract Sum	\$12,583,751.62

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 2 and Area 3 (ISD-16-6049) (Agreement)
Subject: Variation 21 – Additional completion of As-Built**

TfNSW refers to Alstom’s letter referenced above dated 21 February 2020, wherein Alstom submitted a detailed estimate of the costs and time for a combined as-built submission for Portion 3 comprising the geographical location between Wyong (exclusive) and Cardiff (exclusive) and for Portion 4 comprising the geographical location between Cardiff (inclusive) and Wickham (inclusive) (Portion 3 and Portion 4) in response to TfNSW’s variation proposal request (VPR) ref. 6379778 dated 22 November 2019.

Further to your above, TfNSW advises that it has assessed the time and cost and pursuant to clause 16.3(a) of the above-mentioned Agreement, TfNSW hereby varies the Agreement subject to:

1. Scope of Variation: Submission of as-built documentation prior to the completion of the balance of the Services, which included;
 - a) Submitting the documentation for a CCB Gate 5; and
 - b) Handing over to Sydney Trains comprising data design as-built and final safety and quality assurance documentation.
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 \$30,746.64 excl GST for this Variation as described in Table 1 below:

Role	Hourly Rates	Hours	Price
Data Preparation Engineer	[REDACTED]		
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			



Role	Hourly Rates	Hours	Price
Design Management			
Total ex GST			\$30,746.64

Table 1: Fee Breakdown

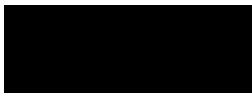
b) The Fee is revised to \$12,614,498.26 as described in Attachment A.

All other terms and conditions of the Agreement remain unchanged.

Would you please signify Alstom’s acceptance of this variation 21 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



Himesh Nair
Principal’s Representative
ATP Program

Date 20/04/20

Attachments:

- Attachment A: Revised Fee

Variation 21 for Area 2&3 –under Contract ISD-16-6049 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	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,109.03
Variation 11: Incorporation of Portion 2 Modifications	\$533,056.47
Variation 12 : Incorporation of Portion 1 Modifications	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	\$ 382,590.00
Variation 14: D-link Portion 3 Modifications	\$ 0.00
Variation 15: Revised date for Completion and PM costs	\$ 983,823.27
Variation 16: Incorporation of Design modifications for SIT area	\$481,171.17
Variation 17: Unproductive Costs for Delayed inputs (Apr-December 2019)	\$485,875.00
Variation 18: Portion 2 –Signal 46.1 Location modifications – AEO Approved	\$52,050.28
Variation 19: Incorporation of Modifications post NIT testing	\$19,504.38
Variation 20: Portion 2 –Signal 46.1 Location modifications – due to AEO approved copies	\$20,515.31
Variation 21: Additional completion of as-built – This Variation	\$30,746.64
Revised Contract Sum	\$12,614,498.26



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

Attention: [REDACTED]

Dear [REDACTED],

**Automatic Train Protection Program (ATP)
AMS Area 2 and Area 3 Trackside Data Design (ISD-16-6049)
Subject: Variation 22– Additional changes to Signalling Design Portion 1 (part 6 and 7)**

We refer to Alstom Transport Australia Pty Limited’s (Alstom’s) above referenced letters dated 6 March 2020 and TfNSW’s previous letters and their associated attachments, reference 6372199 dated 29 November 2019, reference 6395913 dated 08 January 2020 and reference 6248434 dated 24 February 2020.

Further to these correspondences 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 additional Signalling Design modifications into the Contract Materials in accordance with the revised Signalling Plan Package 1 and Signalling Design Package 1 documents previously issued under TfNSW’s afore mentioned letters and as listed in Attachment A and B.
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 \$176,532.05 excl GST for this Variation as described in Table 1 and Table 2 below:

Role	Hourly Rates	Hours	Price
Data Preparation Engineer	[REDACTED]		
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			
Design Manager			
Total ex GST			\$125,043.24

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



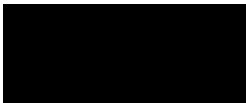
Role	Hourly Rates	Hours	Price
Data Preparation Engineer			
Data Preparation Manager			
Data Validation Engineer			
Data Validation Manager			
System Assurance			
Independent Professional Reviewer			
Design Manager			
Total ex GST			\$51,488.81

Table 2: Fee Breakdown

b) The Fee is revised to \$12,791,030.31 as described in Attachment C.

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,



Himesh Nair
Principal's Representative
ATP Program

Dated: 22/04/20

Attachments:

Attachment A - Variation 12 – Part 6 - Additional Signalling Design Inputs Portion 1 –D&C Signalling Design Changes (DS # 6372199)

Attachment B : Variation 12 – Part 7 - Area 2 Portion 1 CB477 Cowan (EXCL) - Hawkesbury River (INCL) v12092019 (ATP-DEDI-EM-000025.4.IFR) DS #6192924

Attachment C – Revised Fee

Variation 22 for Area 2&3 – under Contract ISD-16-6049 is acknowledged on behalf of Alstom Transport Australia Pty Ltd:

Signature: _____

Name: _____

Title: _____

Date: _____

Attachment A - Additional Signalling Design Inputs Portion 1

DOCUMENT No	TITLE	VERSION	AEO Approved Date	FORMAT
ATP-DEDI-EM-000007	Area 2 Portion 1 SP Cowan (INCL) - Hawkesbury River (INCL) (45.5Km-62.5Km)	V7	31/10/2019	Pdf
ATP-DEDI-EM-000023	Area 2 Portion 1 SCF477 Hawkesbury River	V7	31/10/2019	Pdf & xls
ATP-DEDI-EM-000024	Area 2 Portion 1 SCF478 Cowan	V7	31/10/2019	Pdf & xls
ATP-DEDI-EM-000021	Area 2 Portion 1 ET477 Cowan (excl) - Hawkesbury River	V5	31/10/2019	Pdf
ATP-DEDI-EM-000022	Area 2 Portion 1 ET478 Cowan	V6	31/10/2019	Pdf
ATP-DEDI-EM-000121	Area 2 Portion 1 - Simplified Gradient Output - 26.10.2019 - AEO Approved.pdf	V3	31/10/2019	Pdf & xls
ATP-DEDI-EM-000208	Area 2 Portion 1 HRSSR ERA - DNNM v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000209	Area 2 Portion 1 HRSSR ERA - UPNM v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000210	Area 2 Portion 1 ERA DEFICIENT OVERLAP v3.6	V2	31/10/2019	xls
ATP-DEDI-EM-000211	Area 2 Portion 1 ERA HRTO v3.6	V2	31/10/2019	xls
6024186	TfNSW DR Sheet _V6.9 Area 23 DC Portion SP ETCS Tables	V12	08/11/2019	xls

Attachment B - Area 2 Portion 1 CB477 Cowan (EXCL) - Hawkesbury River (INCL)

DOCUMENT No	TITLE	VE R	AEO Approved Date	FORMA T
6387541 (A-153592-4A)	Alstom DR Sheet - AMS 2-3 Portion 1 CB477 Validated Data Submission v1.4.1 - A-0000153592-4A (TfNSW_ST response)	V4	07/01/2020	Ms Word
6192924	CIRCUIT BOOK - CB477 COWAN (EXCL) - HAWKESBURY RIVER	V4	18/11/2019	PDF

Attachment C - Revised Fee

Description	Value (excl GST)
Original Contract Sum	\$5,796,140.00
Variation 1: Additional Training	\$69,570.05
Variation 2: Initial Services	\$0.00
Variation 3: Concept Design Review Updates	\$530,833.23
Variation 4: Extension of Time Preliminaries	\$1,100,000.00
Variation 5: Implementation of Portion 4 Design Modifications	\$361,000.16
Variation 6: Level Transition Modifications	\$264,974.33
Variation 7: Implementation of Design Change Instructions	\$519,951.45
Variation 8: Incorporation of Change Instruction 1499	Nil Value
Variation 9: Incorporation of Portion 4 SUL152800 Design Modification	\$20,558.99
Variation 10: Incorporation of Portion 3 Modifications	\$507,109.03
Variation 11: Incorporation of Portion 2 Modifications	\$533,056.47
Variation 12: Incorporation of Portion 1 Modifications	\$455,028.50
Variation 13: Unproductive Costs for Delayed Inputs	\$ 382,590.00
Variation 14: D-link Portion 3 Modifications	\$ 0.00
Variation 15: Revised date for Completion and PM costs	\$ 983,823.27
Variation 16: Incorporation of Design modifications for SIT area	\$481,171.17
Variation 17: Unproductive Costs for Delayed inputs (Apr-December 2019)	\$485,875.00
Variation 18: Portion 2 –Signal 46.1 Location modifications – AEO Approved	\$52,050.28
Variation 19: Incorporation of Modifications post NIT testing	\$19,504.38
Variation 20: Portion 2 –Signal 46.1 Location modifications – due to AEO approved copies	\$20,515.31
Variation 21: Additional completion of as-built	\$30,746.64
Variation 22: Additional changes to Signalling Design Portion 1 (part 6 and 7) - Final – This Variation	\$176,532.05
Revised Contract Sum	\$12,791,030.31