



Site Technical Query - Form

SN1809-0000/XE.FRM/0001 Rev 4 03/02/2021

TQ Number:			Project:				
CW2144960	-A010- 0051 Oyu Tolgoi Underground P			ground Project			
A. To be completed by	y or on beh	alf of the Co	ntractor				
Contractor/Sub- Contractor Name:	MCS Inte	rnational		Date Response	18/01/2022		
Contract Title:	Booster F	an installat	ions	Plant Area &	1693		
Contract No.	CW2144	960		Contractor TQ Number:	BF-0415-TQ-0051		
Discipline Codes (Man	datory) [01 (CSA) - [□ D2 (MP) - ⊠	D3 (E&I) - 🗆	D4 (Other) -		
HVAC condenser 16 E-room HVAC Cor	5 93-SRM- ndenser 1 per TQ-00	2001-AHU- 693-SRM-20 145. Therefo	001-AHU-CNDA unit v	will be installed	on top of 1693-SRM-2001- eeded for the HVAC condenser		
□ Routine			□ Urgent Refer Technical Query instructions				
 The contractor is proposed the following options. Install the 1693-SRM-2001-AHU-CNDA unit on the wall with a triangular support. The design and calculations are attached in the appendix. Each base support with two legs anchored to the floor. Place the condenser 1693-SRM-2001-AHU-CNDB at the lower level and the condenser 1693-SRM-2001-AHU-CNDA on the upper level on 2ea base support. Each support with two legs anchored to the floor. Design and calculations are attached. 							
Effect on cost (USD):	YES	3					
Effect on schedule (D							
Effect on quality:	NO	laorer non A	1	b	0.40 5		
Requested by (Name) Signature:	ı: De	lgersuren.N	V	Position: Date: (dd/mm/yyyy)	18/01/2022		

B. To be completed by	B. To be completed by Jacobs Field Engineer					
Comments/recommer	ndations by Enginee	ering				
5		241 41				
Proposal #1	is acceptable	with the	comment.			
-The marked	d in green colo	our in this	TQ page nur	mber #7.	•	
	als used for the	e suppor	ts shall be in a	accordai	nce with th	ne project
specification	ns.					
-Capture ch	anges in redlin	ies.				
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Disclaimer:	on of this TO is only	rolotod with	h taabniaal aanaat	_		
Acceptance or rejection of this TQ is only related with technical aspects. If Cost or Schedule Impact are associated with this TQ, it must be discussed separately with Jacobs Contract team.						
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C. Engineering Decision	on	D. Informa	tion			
<u> </u>						
	<u> </u>			Cos	st Impact	Schedule Impact
Accept with	Reject		sign Change istribute to:	Dist	tribute to:	Distribute to:
comments	Neject		ign Author DA		, Proj. Controls	
				& Constit	uction Manager	Construction Manager
REVIEWER		APPROVER		CONSTRUCTION MANAGER		
Field Engineer OR	Lead Engineer	Lead Engineer OR Chief of Engineering		(If Cost and/or Schedule Impact)		
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Date:		Date:			Date:	
(dd/mm/yyyy)	(0	dd/mm/yyyy)			(dd/mm/yyyy)	

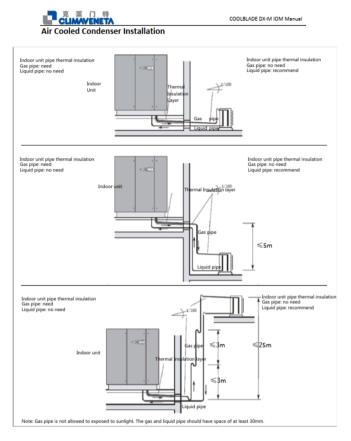
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B. To be completed by Jacobs Field Engineer

Comments/recommendations by Engineering

Proceed as **OPTION#2** with following comments:

- This TQ is accepted only for location of the condenser unit 1693-SRM-2001-AHU-CNDA.
- The Contractor shall be provided gas and liquid pipe route as per Manufacturer recommendation which shows Page-77 on 1693-65-IOM-1500. Prior to installation, separate TQ shall required and confirmed by Worley Reps.



- The Contractor shall be provided Mounting Detail of this relocated condenser unit. Prior to installation, separate TQ shall required and confirmed by Worley Reps.
- Changes shall be redlined on all relevant drawings.

Disclaimer:

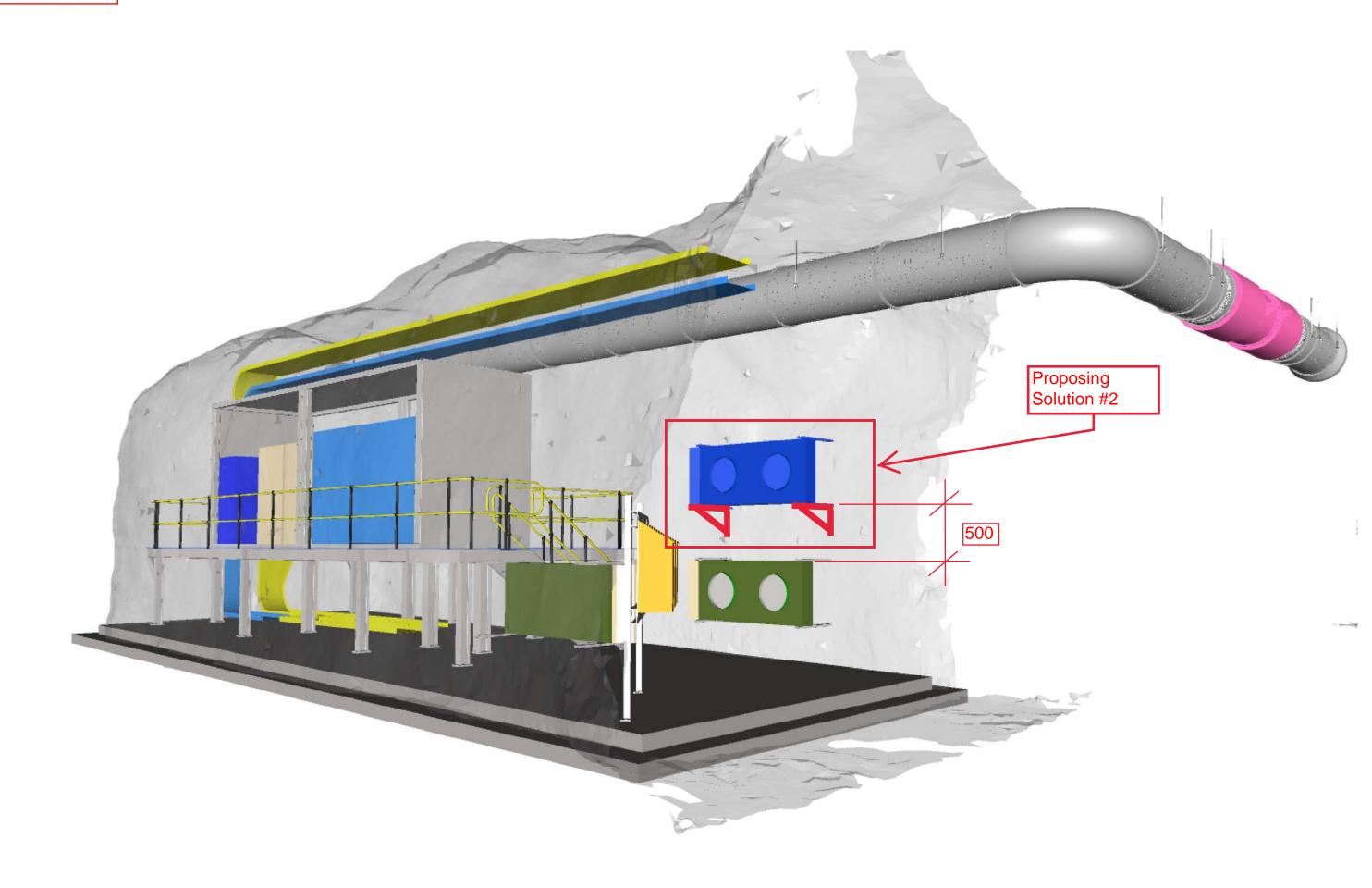
Acceptance or rejection of this TQ is only related with technical aspects.

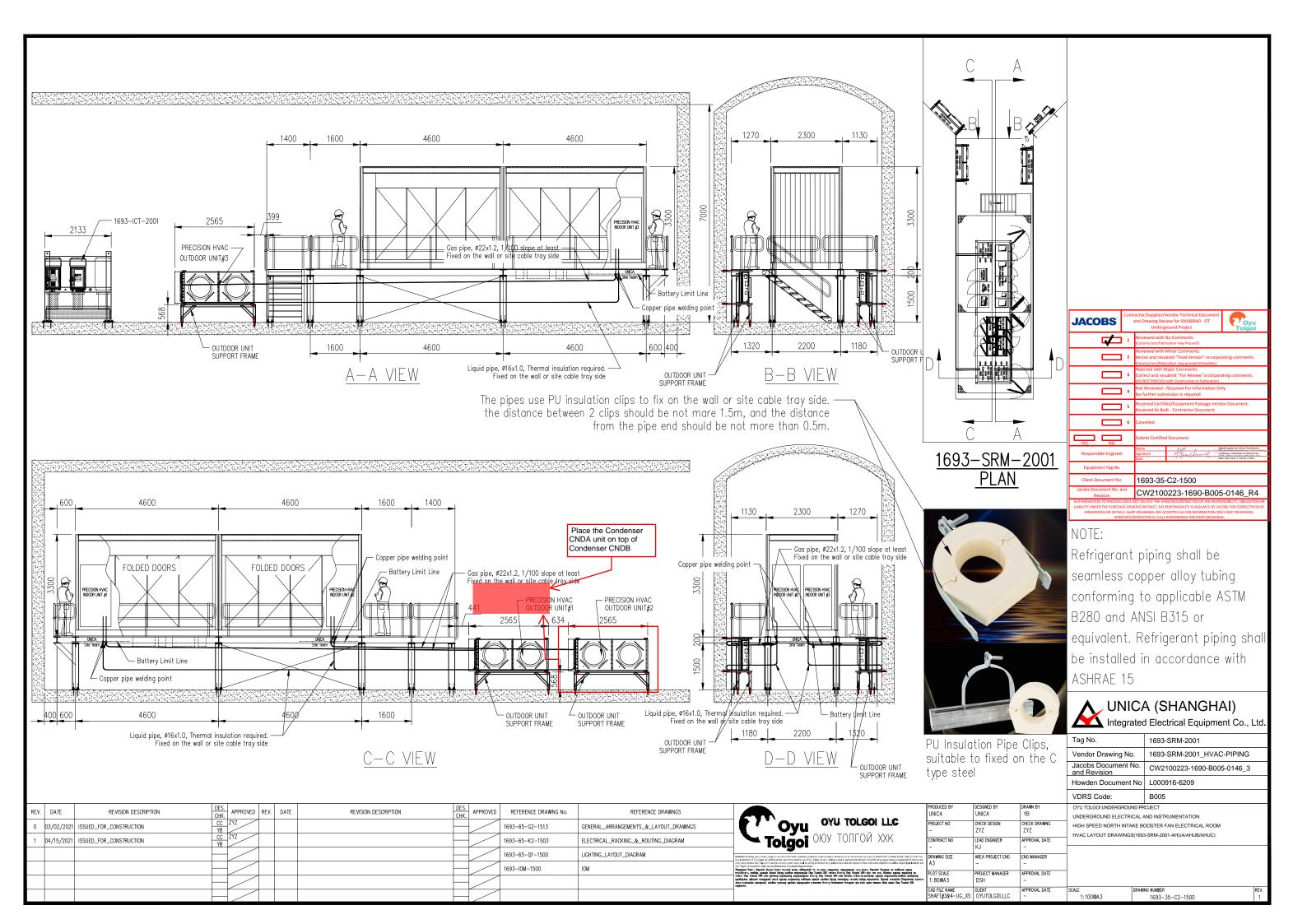
If Cost or Schedule Impact are associated with this TQ, it must be discussed separately with Jacobs Contract team.

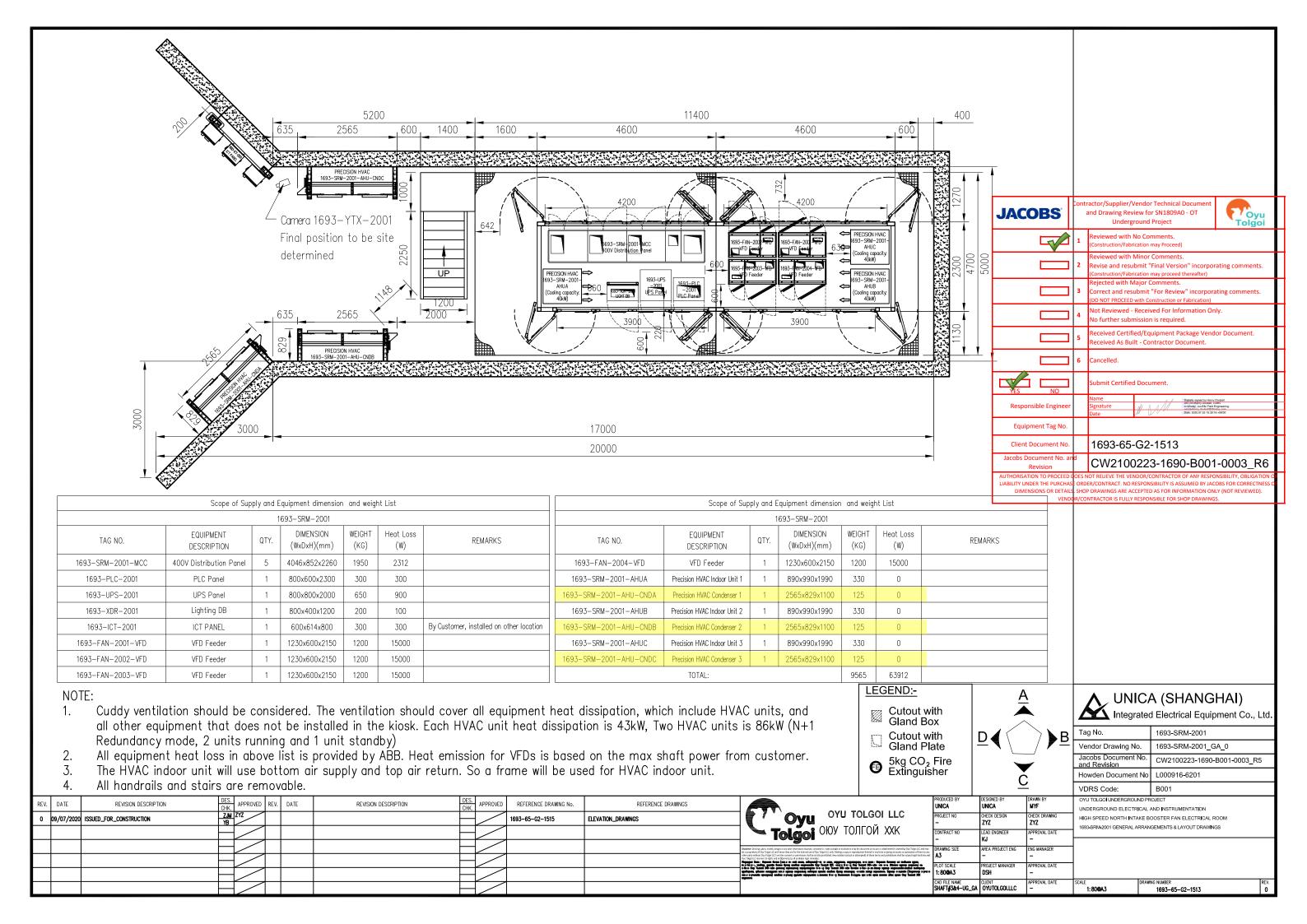
C. Engineering Decision		D. Information				
V						
Accept with comments	Reject	Design Change Distribute to: Design Author DA	Cost Impact Distribute to: Contracts, Proj. Controls & Construction Manager	Schedule Impact Distribute to: Proj. Controls & Construction Manager		

REVIE	APPROVER			CONSTRUCTION MANAGER		
Field Engineer OR Lead Engineer		Lead Engineer OR Chief of Engineering			(If Cost and/or Schedule Impact)	
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Date:	A1// 2022.01.13	Date:	11 t. 30g	2022.01.13 15:10:48 +08'00'	Date:	
(dd/mm/yyyy)	+08'00'	(dd/mm/yyyy)			(dd/mm/yyyy)	

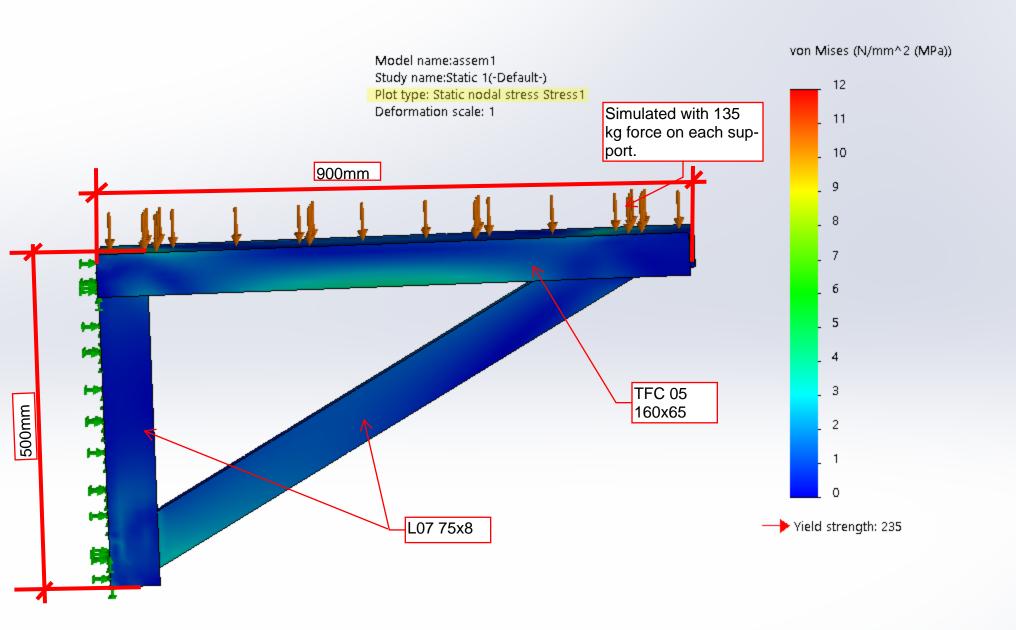
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OPTION 1 2ea M12 Support from Threaded rod manufacturer Support from manufacturer 6ea M16 Threaded rod, Minimum embedment 500mm Sound rock The legs need to be extended past the diagonals slightly to allow easy access to the anchor bolts.



Model name:assem1

Study name:Static 1(-Default-)

Plot type: Static displacement Displacement1

Deformation scale: 1000

