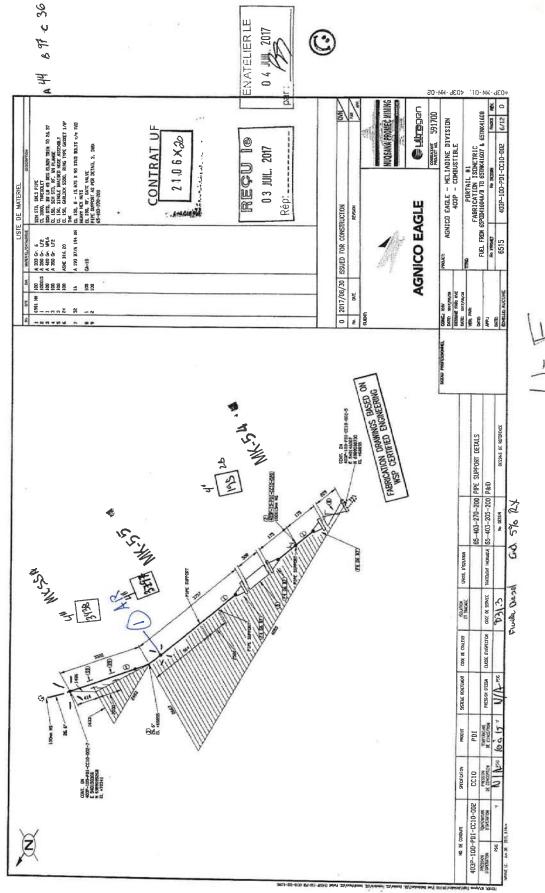
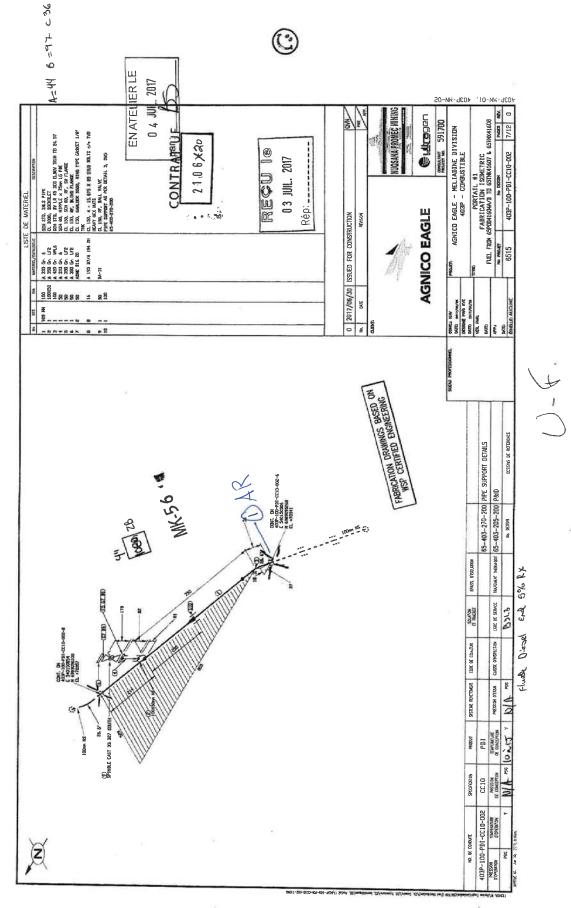


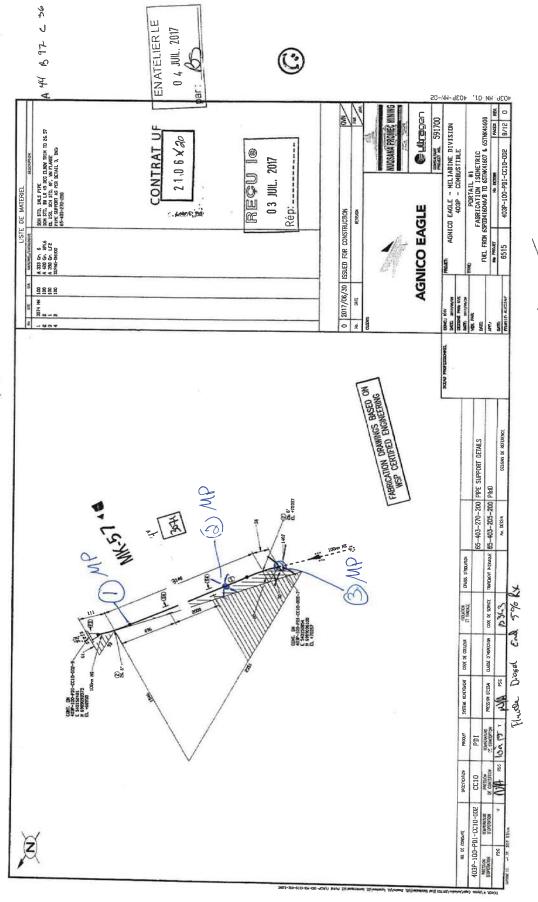
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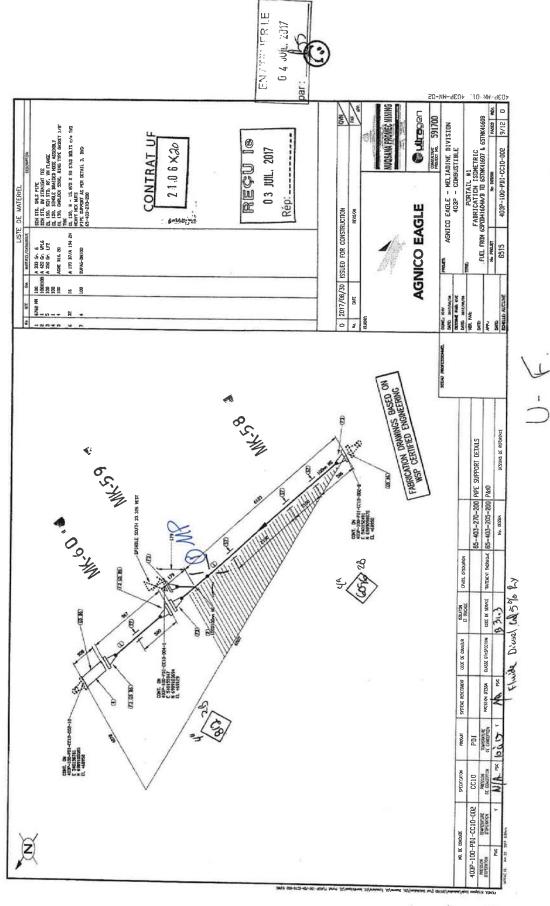
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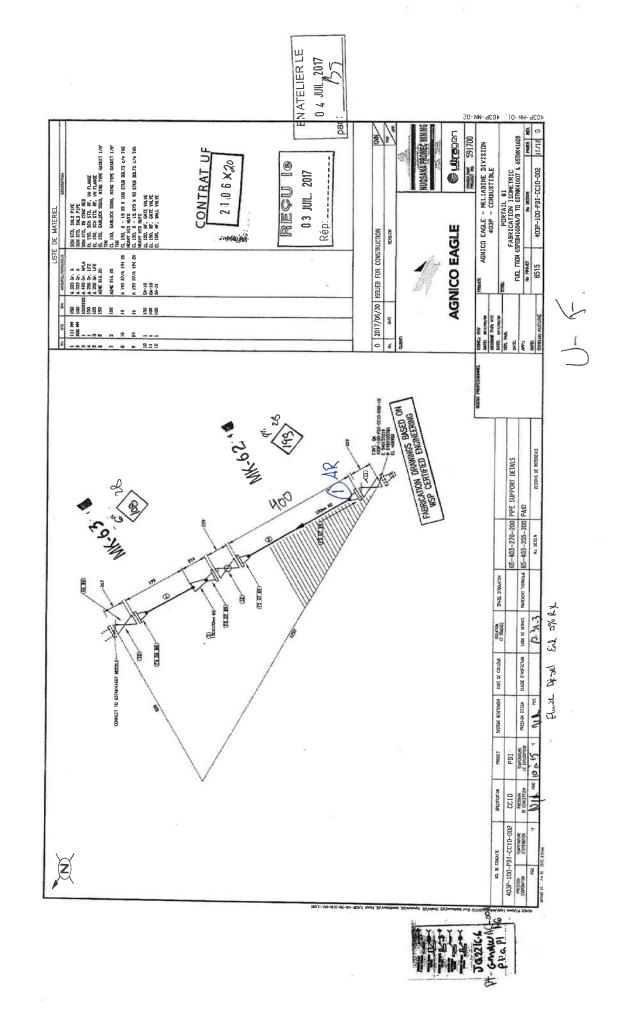


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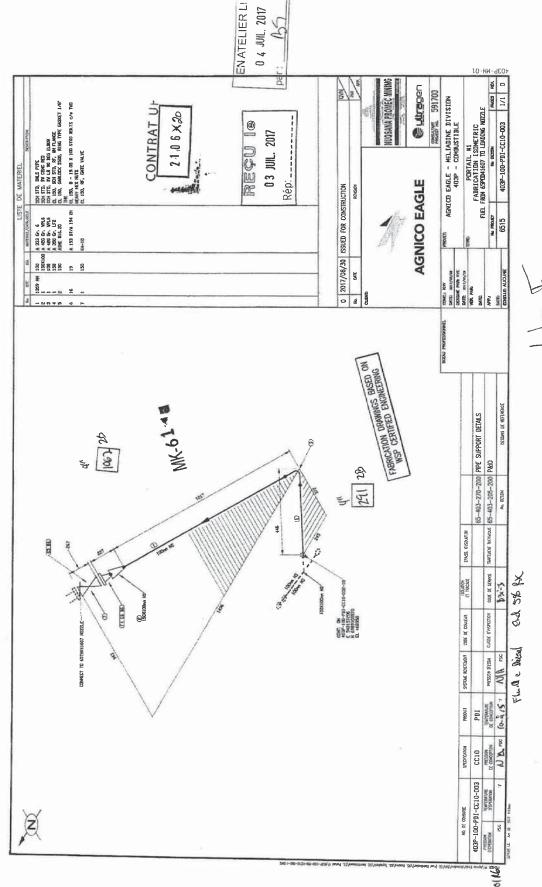
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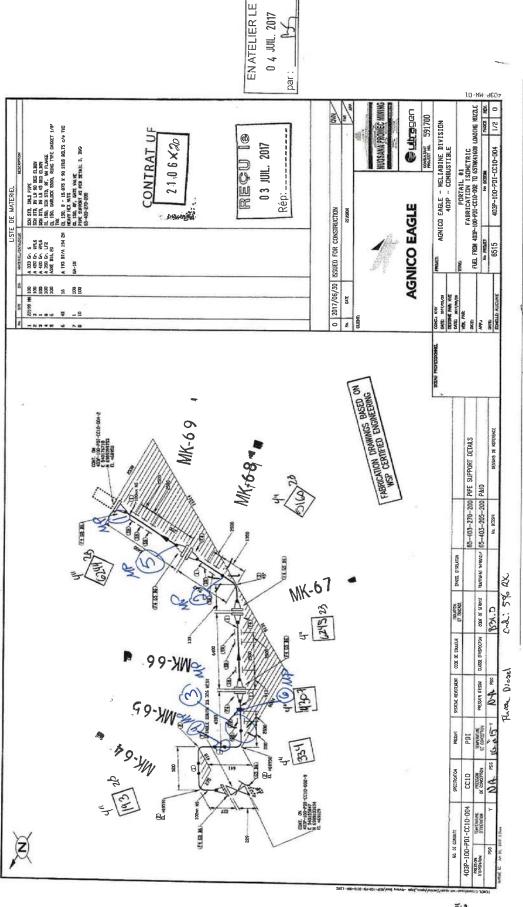


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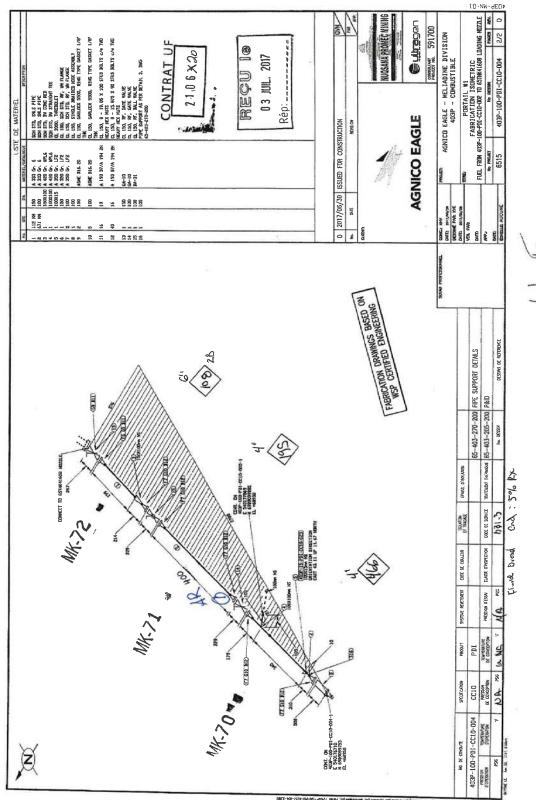
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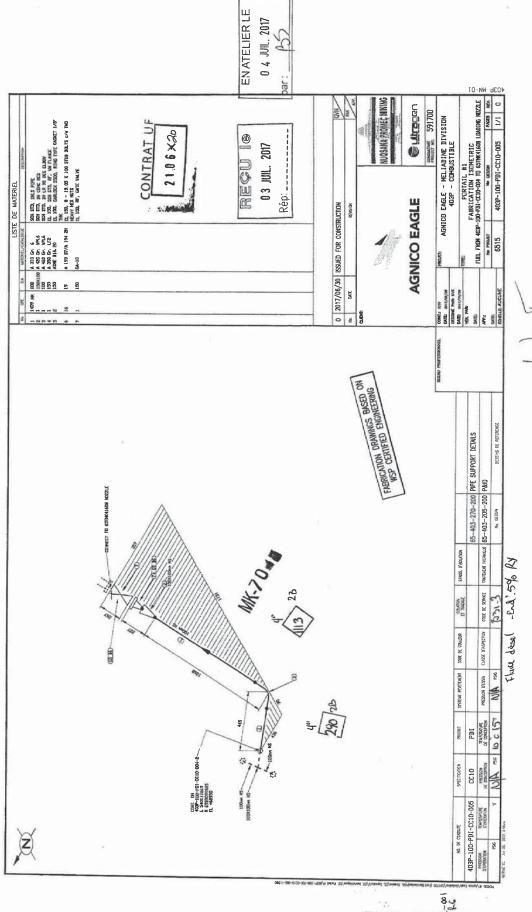


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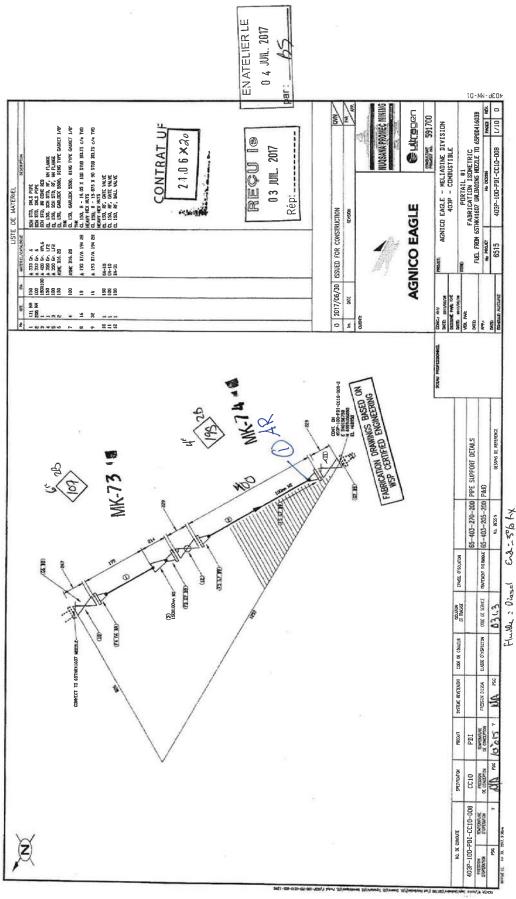


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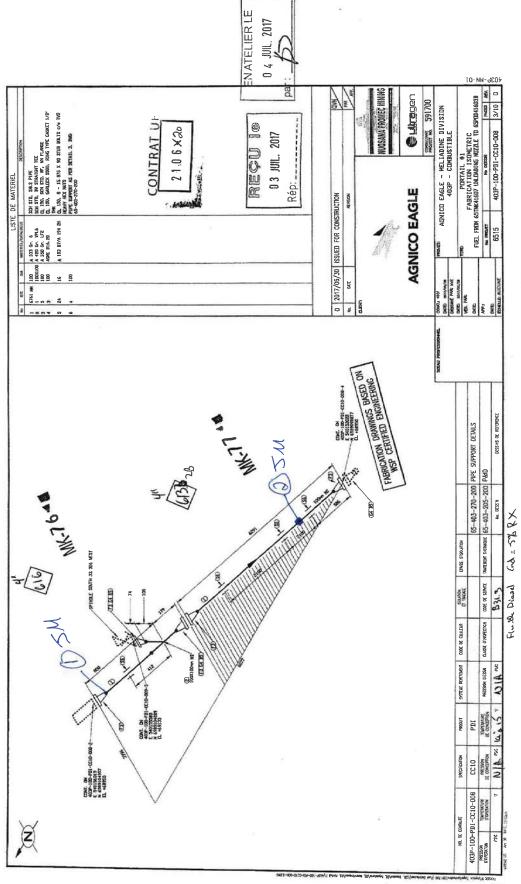


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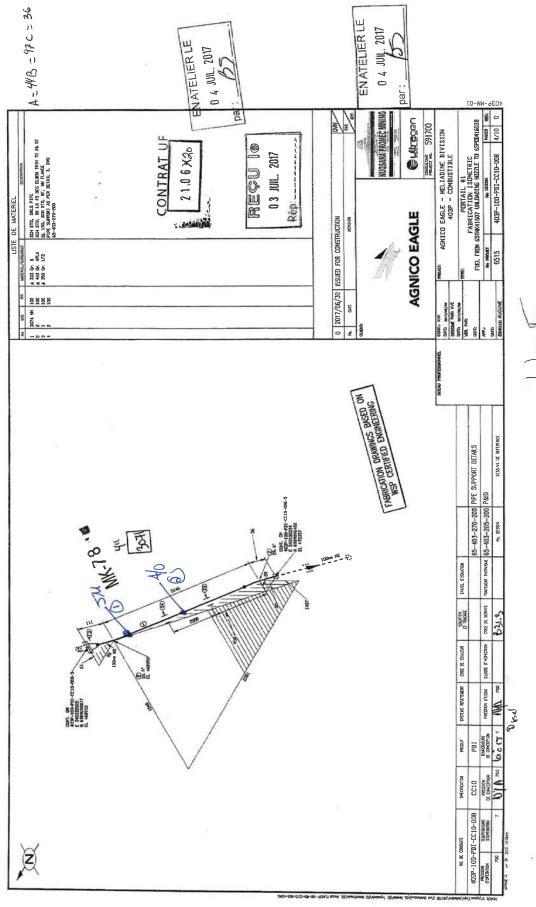
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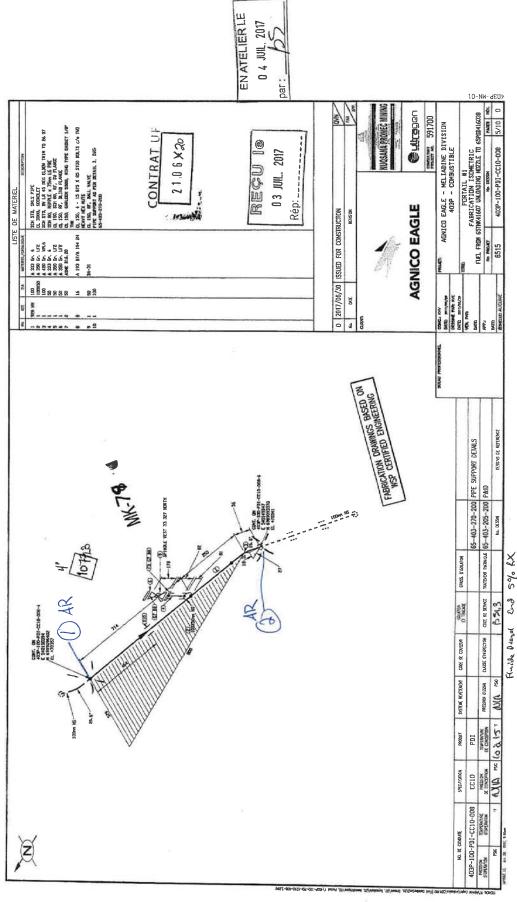


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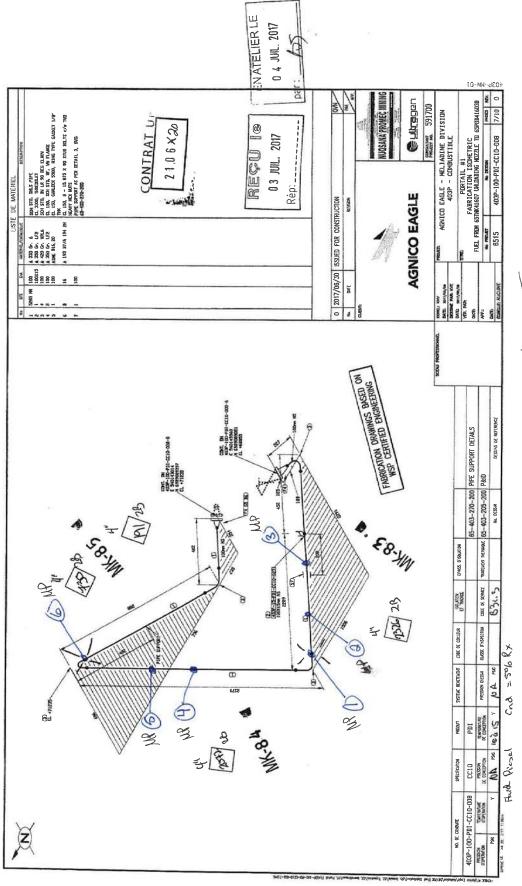




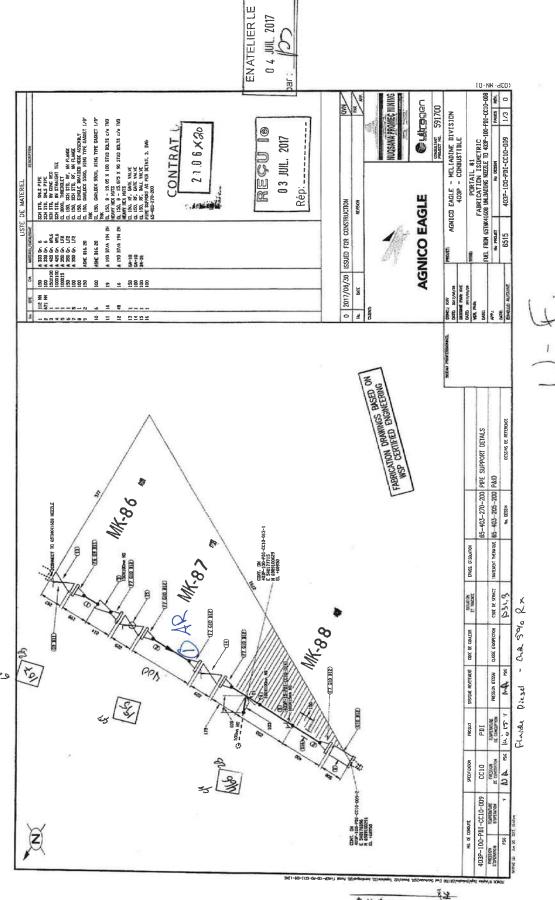
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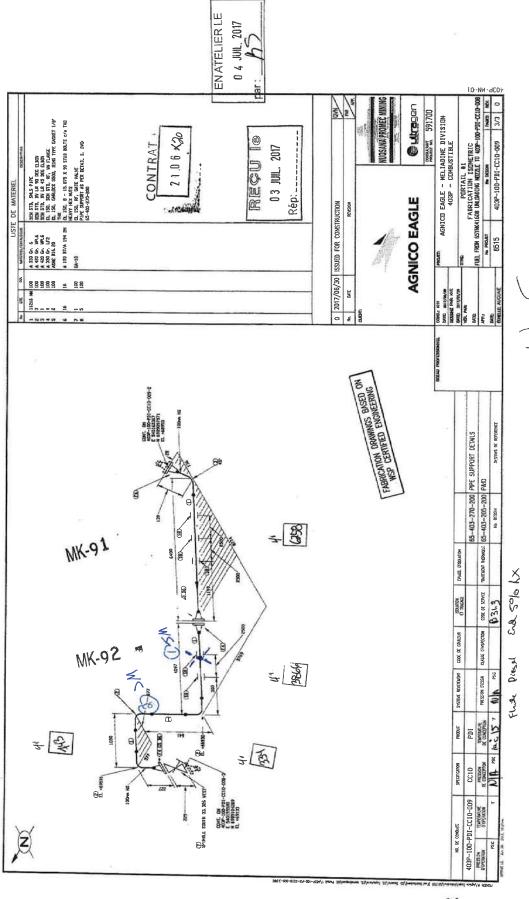


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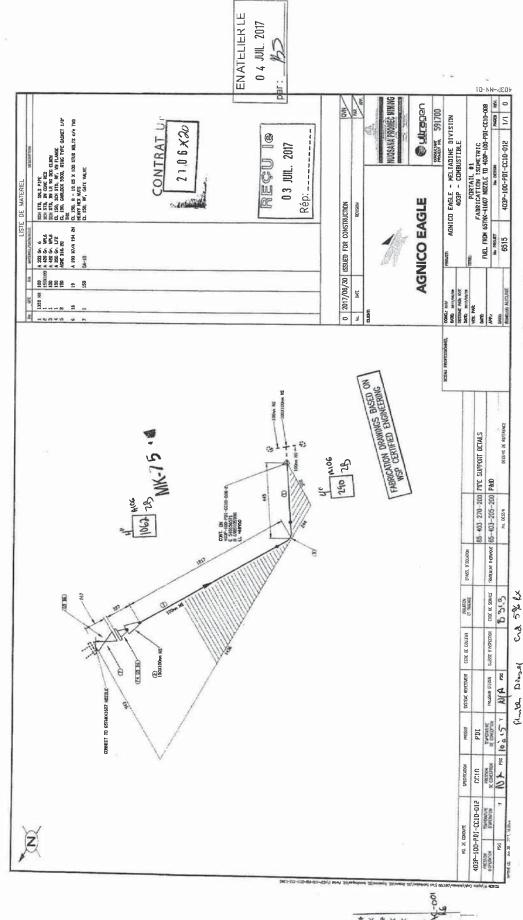
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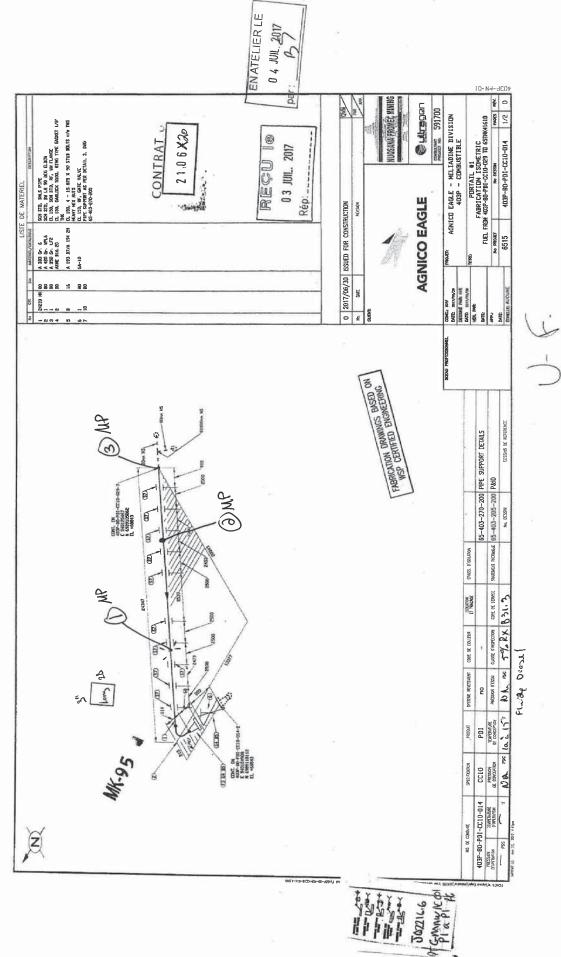
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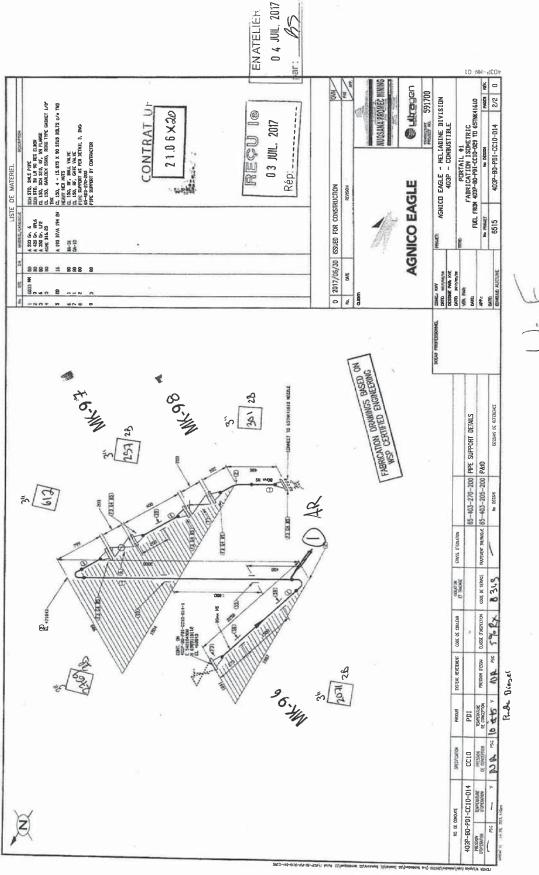
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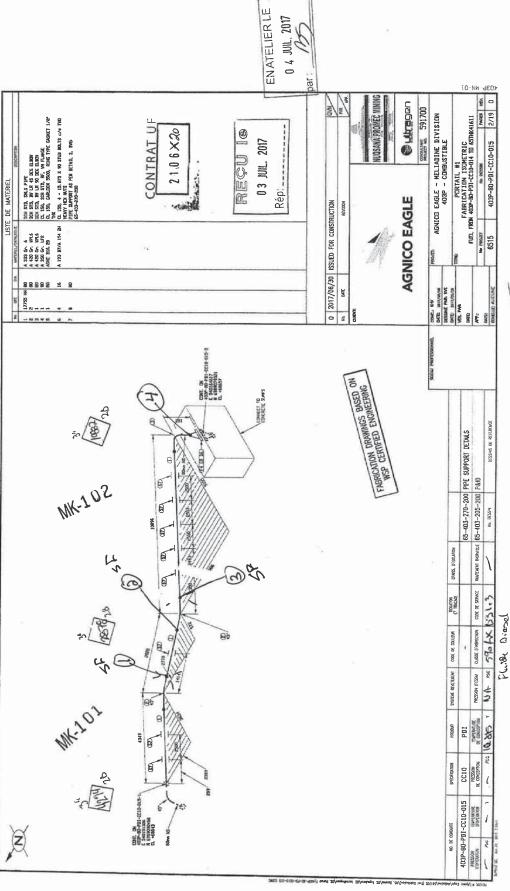




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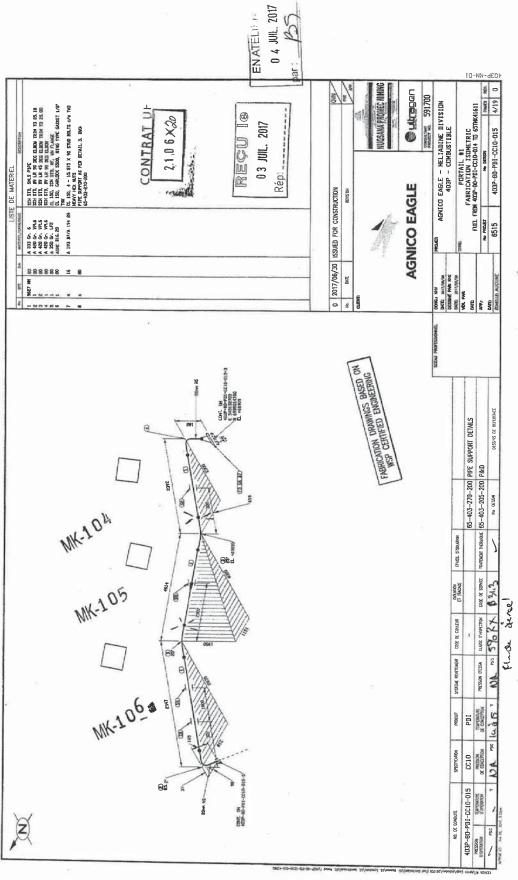
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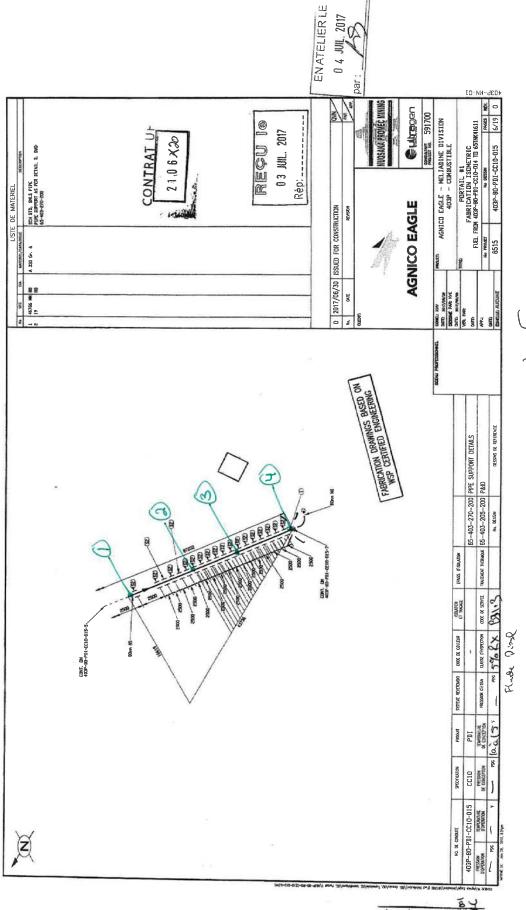
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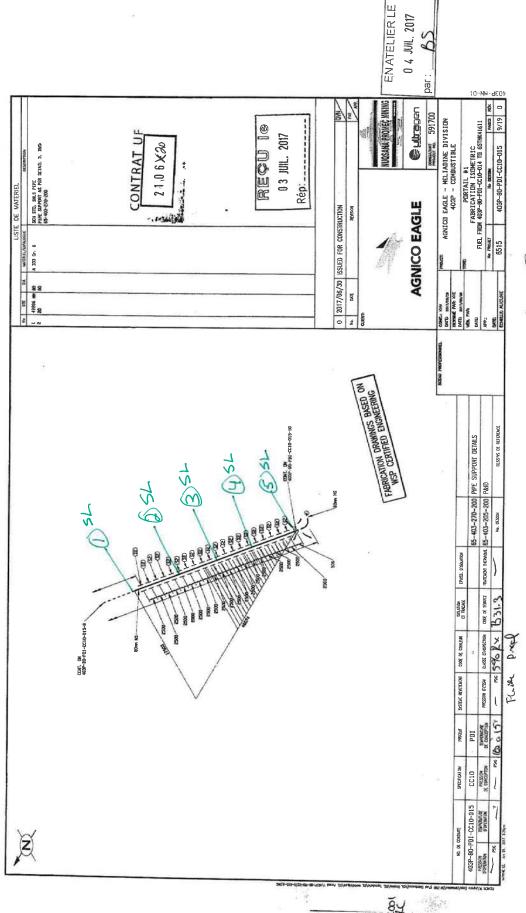
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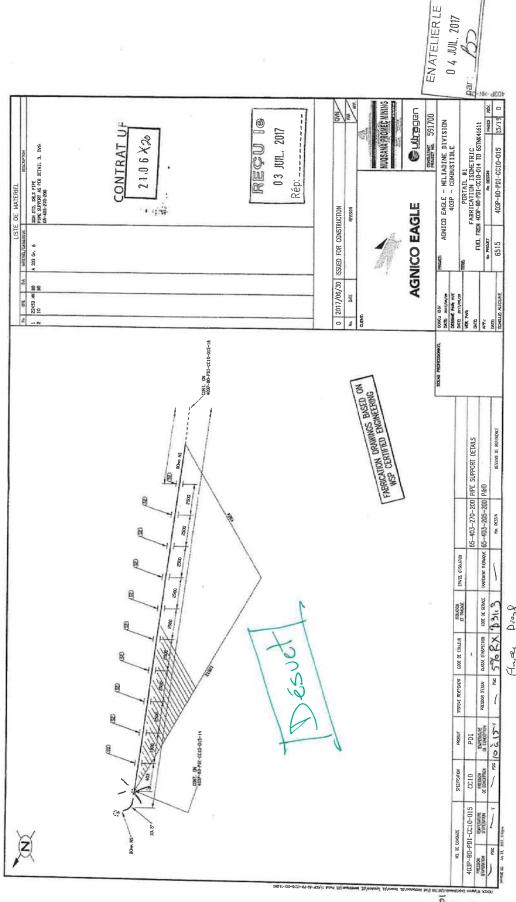
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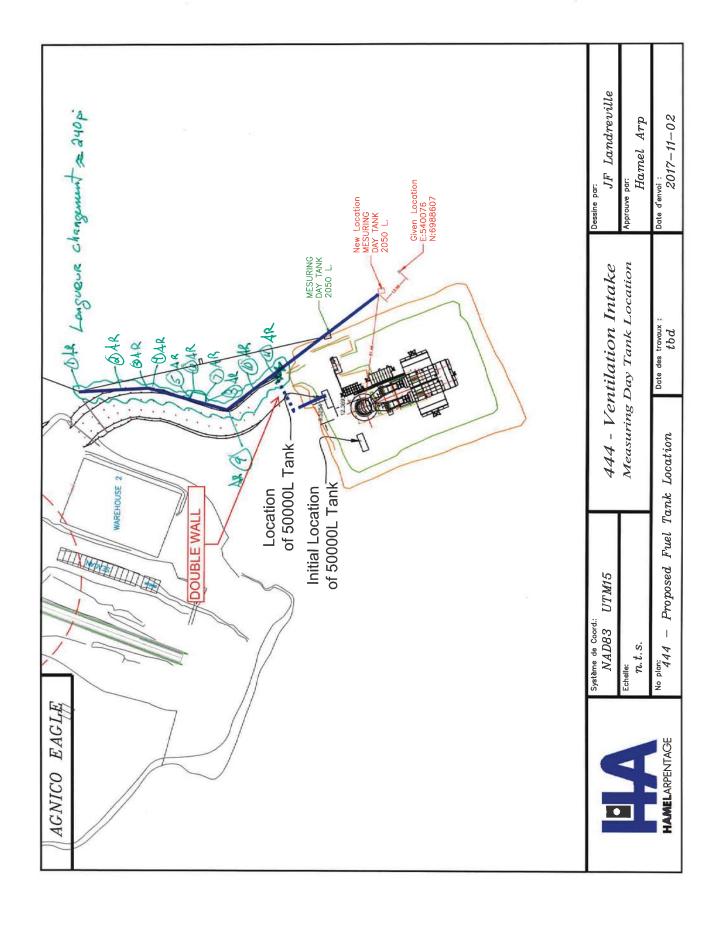
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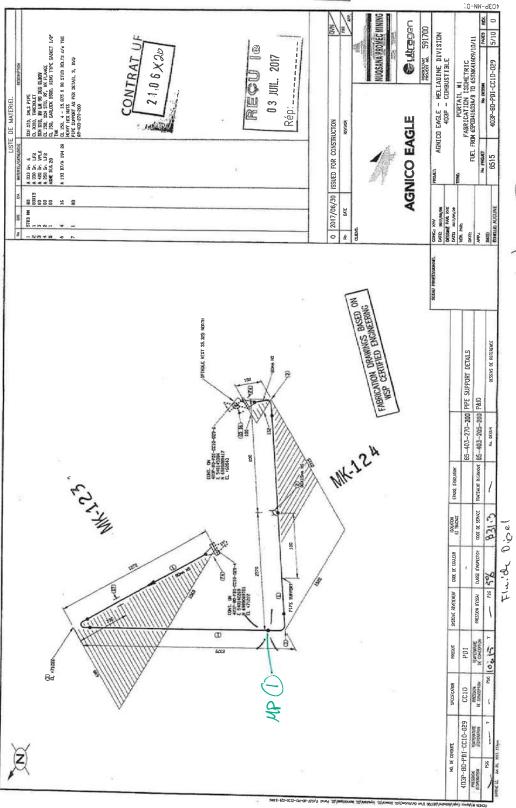
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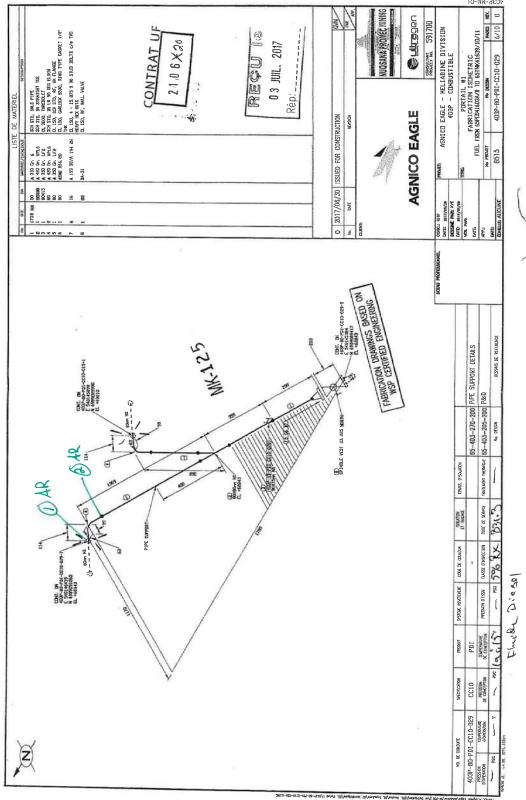
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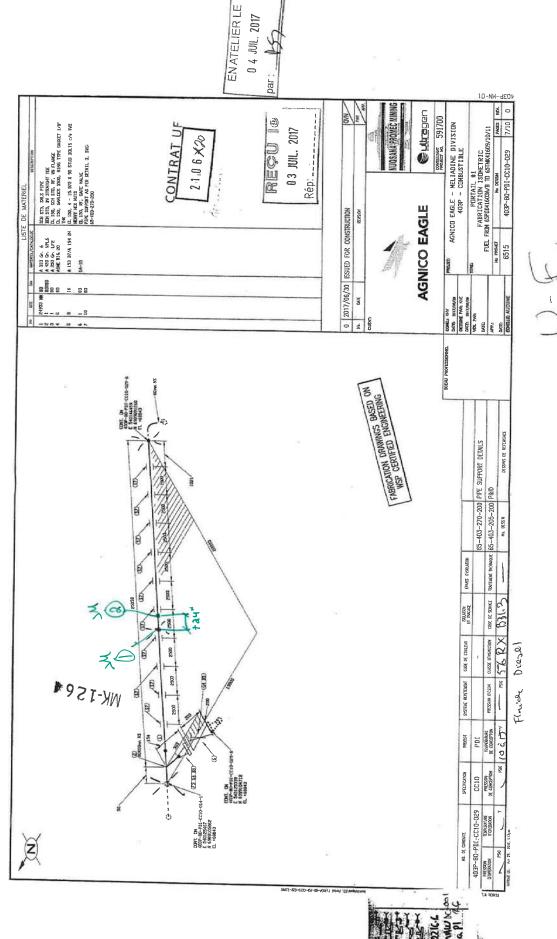
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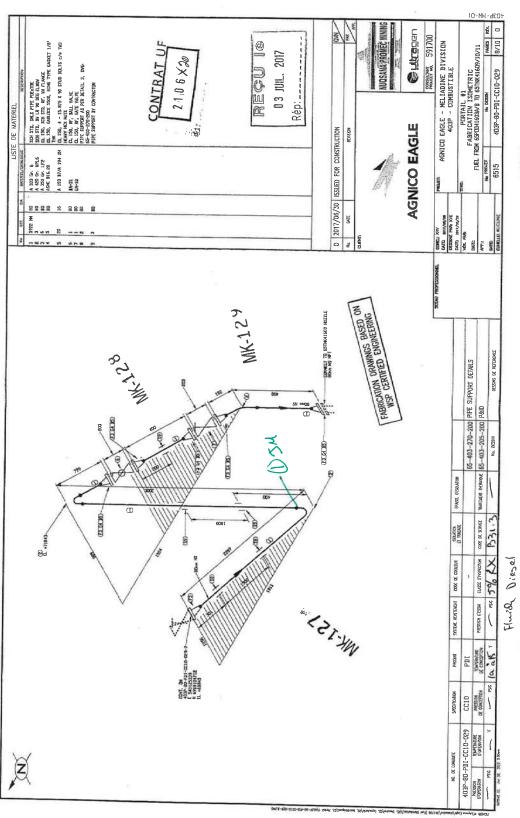
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APPENDIX F

Inspection Report – Portal #1 Fuel Modules Quality Control Documents



Vendor Document Status AGNICO EAGLE				
1 Proceed to next submission and status.				
2 Proceed with exceptions as noted to next submission and status.				
3 Do not proceed. Revise as noted and resubmit next submission and status.				
4 Complete, no further submission required.				
By: Date: Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico				
Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.				
Agnico Eagle No. 6515-C-270-007-141-QCR-0004 R: Sub001				
DOCUMENT FOR INFORMATION				



22466T / 22498E

FUEL MODULES



AGNICO EAGLE

MÉLIADINE

6515-C-270-007

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AGNICO EAGLE

Vendor Document Status

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2017-07-10

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Agnico Eagle

6515-C-270-007-141-TES-0007 R: Sub002

DOCUMENT FOR INFORMATION

Contract title: Contract number: NUGSANA PROVIEC MINING

Inspection and Testing Plan

Meliadine Fuel Tanks Piping Supply and Installation 6515-C-270-007

Approval Signature C22498E

Approved on :

AGNICO EAGLE Approved by:

Promec Ref.:

AEM-ITP-003 rankin inlet

ITP # Area System

ALL

Instrumentation Electrical

Discipline

Updated on: 2017-04-26 H - Hold W - Witness I - inspect R - Review Legend

					Verification Point	on Point		
			Acceptance Criteria	Contractor	actor	Client	int	Verification Document(s)
Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	(Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	τ ≥ − π	initials & Date	π ≥ − ∞	Initials & Date	 List ONLY the Form(s) applicable to installation. A Commissioning Required Document
1.0 G	GENERAL							
1.1 In	Inspection and Test Plan	Promec / CLIENT		H/R				Approved ITP
٥	Document review							
1.2	(Acquire and review all applicable	Promec / CLIENT	Quality Plan	H/R				
Ö	documentation)							
1.3	Procedures Submitted and Approved	Promec / CLIENT	Quality Plan	H/R				All Applicable Approved Procedures
1 4 D	Drawing Index (IEC) to Latest Revision	Promer	Ouality Plan	8/1				IRON
	TO CDECIEIO							
7.0	I P SPECIFIC							
								AEM-GE-ITR-002
2 1 N	Non-Conformance Report & Log (Both	Promer / CLIENT	Onality Plan	H/B				(Non-Conformance Report)
	CLIENT & Contractor Issued)	ומובר/ ביורות		1/11				▲ AEM-GE-LOG-002
								(Non-Conformance Log)
								AEM-GE-ITR-005
7.7 In	Inspect Material/Equipment for Damages	Dromor	neld VillenO	0/1				(Inspection Deficiency Report)
	or Deficiencies			4/1				▲ AEM-GE-LOG-004
								(Inspection Deficiency Log)

Rev. 1

Inspection and Testing Plan

NUGSANA PROMEC MINING

Contract number: Contract title:

Approved on: Promec Ref.: AGNICO EAGLE Approved by:

C22498E

Meliadine Fuel Tanks Piping Supply and Installation 6515-C-270-007

Approval Signature

AEM-ITP-003 rankin inlet ITP # Area System

Instrumentation Electrical ALL Discipline

Updated on: 2017-04-26 H - Hold W - Witness I - Inspect R - Review Legend

					Verification Point	on Point		
			Acceptance Criteria	Contr	Contractor	Client	nt	Verification Document(s)
Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	(Specifications, Drawings, industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	τ ≥ − π	Initials & Date	π > - α	Initials & Date	 List ONLY the Form(s) applicable to installation. A Commissioning Required Document
3.0	Electrical & Instrumentation							
3.1	All Certified Test Records • Fire Alarm Cert's - (Engineer's Stamp; Vendor Test Documents) • CSA Approval Documentation	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	I/R				▲Third Party Document
3.2	Electrical Equipment Installation Inspection Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.3	Distribution Panel Inspection & Test Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.4	Distribution Transformer Field Inspection Test Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.5	PCR Installation and Inspection	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	W/R				AEM-IN-ITR-005A (PCR Panel Report)
3.6	Heating Device Installation Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	I/R				AEM-EL-ITR-002 (Heating Unit Report)
3.7	Cable tray Inspection Record	Promec / CLIENT	AEM-EL-PRO-003 (Cable Tray Installation Procedure)	I/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
83.	Power/Control Cables Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	W/R				AEM-EL-ITR-003 (Megger Cable Report) AEM-EL-ITR-004 (Continuity Test Report)
3,9	Low Voltage Cable Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	W/R				AEM-EL-ITR-003 (Megger Cable Report)

Inspection and Testing Plan

NUGSANA PRONEC MINING

Contract title: Contract number: Promec Ref.:

C22498E Approved on: Approved by:

AGNICO EAGLE

Meliadine Fuel Tanks Piping Supply and Installation 6515-C-270-007

Approval Signature

ITP # Area System

Discipline

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Instrumentation Electrical

Updated on: 2017-04-26 H - Hold W - Witness I - Inspect R - Review Legend

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Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	(Specifications, Drawings, industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	т 3 − к	Initials & Date	π 3 – α	Initials & Date	 List ONLY the Form(s) applicable to installation. A Commissioning Required Document
3.10	Instrument Cable Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	I/R				AEM-EL-ITR-004 (Continuity Test Report)
3.11	Grounding System (Grid & Pile Grounds) Installation Inspection and Test Record	Promec / CLIENT	AEM-EL-PRO-002 (Grounding Installation and Testing Procedure)	H/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
3.12	Branch cct Test Record (Lights, Receptacles, Heaters, etc.)	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	I/R				AEM-EL-ITR-001 (General Report)
3.13	Fire Alarm Panel and Device Installation Record	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	I/R				AEM-EL-ITR-001 (General Report)
3.14	Instrumentation install ation Test Record (Powered instruments)	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	W/I/R				AEM-IN-ITR-003A (Level Transmitter) AEM-IN-ITR-004C (Pressure Switch) AEM-IN-ITR-006A (On/Off Valve) AEM-IN-ITR-001B (Flow Switch) AEM-IN-ITR-001C (Flow Transmitter) AEM-IN-ITR-002A (Push Button Station) AEM-IN-ITR-002A (Push Button Station) AEM-IN-ITR-007A
3.15	Instrumentation Installation Test Record (Non-powered instruments)	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	I/R		;		AEM-IN-iTR-004A (Pressure Indicator) AEM-IN-ITR-004B (Pressure Safety Valve)

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Inspection and Testing Plan

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	Meliadine Fuel Tanks Piping Supply and Installation	551.5-C-270-007	222498E	Approval Signature			
	Contract title: Melia	Contract number: 6515	Promec Ref.: C224		Approved on :	Approved by:	
- Charles		À		7		AGNICO EAGLE Approved by:	

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Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	(Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	I > - a	initials & Date	Ι > - α	Initials & Date	 List ONLY the Form(s) applicable to installation. A Commissioning Required Document
3.16	Motor/Install/Megger/Rotation Test and Polarization Records	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-005 (Motor Report)
3.17	Instrument Loop Test (Pre-Commissioning / Commissioning Activity	Promec / CLLENT	(Instrumentation Installation and Testing Procedure)	1/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
4.0	FINAL TURNOVER							
4.1	Construction Completion (Contractor Punchlist & Joint Walkdown Punchlist)	Promec / CLIENT	Quality Plan	H/R				▲ AEM-GE-ITR-003 (Punchiist)
4.2	Final Acceptance of Turnover Package	Promec / CLIENT	Quality Plan	H/R				Signed ITP History Docket
4.3	Declaration of Completion	Promec	Quality Plan	H/R				AEM-GE-ITR-004 (Notice of Final Completion)
4.4	As-Built Drawings	Promec	Quality Plan	H/R				All Required As-Built Drawings
END								

		S	Date
CLIENT's Representative		Name	Signature
			Date
PROMEC's Representatives	Project Manager	Name	Signature
	QA/QC	Name	Signature

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Agnico-Eagle Mines Ltd. Contract no. 6515-C-270-007

Cable Installation and Testing Procedure AEM-EL-PRO-001

System No.:	All				
PROMEC	Approvals				
Prepared by:	Stéphane Doré	Signature:	Date:	2017-04-25	
Verified by:	Jonathan Roy	Signature:	Date:	2017-04-25	
Approved by:	Éric Poulin	Signature:	Date:	2017-04-25	
CLIENT Approvals					
Verified by:	-	Signature:	Date:	-	
Approved by:		Signature:	Date:		

Area No.:

All

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2.	EXECUTION	3
	2.1 Inspection and Preparation	
	2.2 Installation Requirements	
	2.3 Inspection and Test Requirements	

APPENDIX A - ALL APPLICABLE ITRs & LOG

Agnico-Eagle Mines Ltd. Sable Installation and Testing Procedure

PRO Number : AEM-EL-PRO-001 Contract no. : C22498E



1. SCOPE

NUCSANA PROMEC MINING

The procedure is to establish the cable installation and testing procedure.

1.1 Covered Sections

- Medium Voltage and 1 000 V Power Cables.
- 600 V Control Cables.
- 300 V Instrumentation Cables.

2. EXECUTION

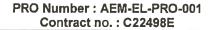
2.1 Inspection and Preparation

- Installation of raceways and supports shall be completed before installing cables.
- Conduits shall be tested for obstructions by pulling a mandrel or other approved object through the conduit. Obstructions shall be cleared with a cutting mandrel or other approved means.

2.2 Installation Requirements

- Cables shall be handled carefully when unreeling to avoid damage due to kinking or otherwise bending to radius less than the Manufacturer's or Electrical Code minimum recommended bending radius.
- Cables shall not be laid on rough ground or dragged over sharp objects.
- Cable Installation in Raceways:
 - > Cable reels to be set as close as practical to the raceway entrance, and train the cable as directly as possible to the entrance with minimal bending.
 - > A protector is to be used at the raceway entrance to protect the cable jacket.
 - > For installation of multiple cables in a conduit, all cables are to be pulled simultaneously.
 - > Cable installation to be performed so that no undue stress is placed upon the insulation and coverings when they are drawn through conduits or otherwise handled.
 - Cables to be neatly installed avoiding crosses as much as practical.
 - > Cables to be supported clear of the tray lip where they exit the tray.
 - Cables to be anchored in place vertically at 1.0 m maximum intervals, and at each bend within 0.3 m of the change in direction at both sides of the bend with appropriate fasteners.
 - > A barrier shall be provided to separate power and control cables for installations where they share a common cable tray. Fireproof sheeting shall be provided to separate power and control cables at tee or cross junctions.
- Installation Cables in Boxes and Cabinets:
 - > Open wiring to be arranged in a neat and orderly manner.

Agnico-Eagle Mines Ltd. ≨able Installation and Testing Procedure





- > Groups of cables to be spaced and supported.
- > Slack wire will be left in all junction boxes, pull boxes, and other places so that wires are not drawn tight against conduit and bushings or short radius corners and the insulation eventually damaged by being squeezed between conductor and other objects.
- The cable shall not be bended either temporarily during installation or permanently to a radius less than the Manufacturer's recommended minimum bending radius.
 - Cable Termination Instructions:

NUOSANA PROMEC MINING

- ◆ Leave each conductor of a cable long enough to reach the most distant terminal point in the equipment being installed. Loop and tie the conductors in a bundle.
- Strip cable jackets only as far back as needed to accommodate the termination of the conductors.
- Slack wire to be left at all terminal connections so that stress is not placed on terminal studs and other connections.
- Control and Instrumentation Cables:
 - All shields on the shielded cables to be kept floating at the transducer and final control element ends (thermocouples, transmitters, analyzers, etc.) and to be terminated and grounded in DCS cabinets.
 - ▲ Motor terminal wiring to be bolted together with the ring tongue type terminals and tin plated bolts of the approximate size.
- > Cable Penetration Sealing: Fire stopping seal penetrations shall be in accordance with Client specifications.
- Tagging of Cables Installations:
 - Identify all cables in accordance with attached cable tagging procedure.
 - ♦ Affix cable identification tags at each termination as close to the termination as possible, and at pull boxes, manholes or other points of access.
 - ♦ Individual conductor identification products may be slip-on, or heat shrink, Identification information to be typed or printed with indelible ink.
 - ◆ Single conductor cables shall be color coded and comply with the Canadian Electrical Code CSA C22.1-06, Article 4-036.

2.3 Inspection and Test Requirements

Installed power cables shall be inspected and tested, including continuity and insulation (Megger) of all cables, in accordance with applicable codes and standards.

Installed control shall be inspected and tested, including continuity, in accordance with applicable codes and standards.

Agnico-Eagle Mines Ltd. Sable Installation and Testing Procedure NUQSANA PROMEC MINING

PRO Number : AEM-EL-PRO-001 Contract no. : C22498E



Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE	Vendor Document Status			
1 Proceed to next submission and status.				
2 Proceed with exceptions as noted to next submission and status.				
Do not proceed. Revise as noted and resubmit next submission and status.				
4 Complete, no further submission required.				
LUC SÉNÉCAL By:	2017-07-10 Date:			
Review and authorization to fabric design concept of the Project at responsibility for the accuracy and limited to dimensions and quantitic Eagle does not warrant the accur contained herein, nor does Agnic	cate are only for general conformance with the sexpressed in the Contract Documents. Sole completeness of this document, including but not es, remains with the Supplier/Contractor. Agnico acy or completeness of any of the information o Eagle authorize or approve any construction ences or any safety precautions or procedures.			
Agnico Eagle No. 6515-C-270-0	07-141-TES-0003 R: Sub002			
DOCUMENT FOR INFORMATION				





Agnico-Eagle Mines Ltd. Contract no. 6515-C-270-007

Grounding Installation and Testing Procedure AEM-EL-PRO-002

Area No.:	All				
System No.:	All				
PROMEC	Approvals		A		
Prepared by:	Stéphane Doré	Signature:	Mar .	Date:	2017-04-25
Verified by:	Jonathan Roy	Signature:	1 John	Date:	2017-04-25
Approved by:	Éric Poulin	Signature:	Sol	Date:	2017+01-25.
CLIENT A	Approvals				
Verified by:		Signature:		Date:	
Approved by:	<u> </u>	Signature:	3 	Date:	

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	3.2 Inspection and tests	

Agnico-Eagle Mines Ltd. <u>Croun</u>ding Installation and Testing Procedure



PRO Number : AEM-EL-PRO-002 Contract no. : C22498E



1. GENERAL

1.1 Introduction

- The purpose of electrical ground testing is to determine the effectiveness of the grounding medium with respect to true ground (earth). Most electrical systems do not rely on the earth to carry load current (this is done by the system conductors) but earth may provide the return path for fault currents, and for safety, all electrical equipment frames are connected to ground.
- During resistance testing, precautions shall be taken to ensure personnel safety. For example the test cable area shall be barricaded and testing personnel shall wear adequate PPE when handling test probes.
- All tests shall be documented and submitted to Owner's representative.
- Weather conditions (e.g. temperature and humidity) can have a considerable effect on resistance readings. Hence, it is important that weather conditions be documented for every resistance test.
- In general, the lower the ground resistance, the safer the system is considered to be.
 Where the resistance is unsatisfactory, those components of the circuit causing unsatisfactory readings shall be repaired or replaced until the resistance meets the minimum requirements.

1.2 References

- Canadian and National electrical code requirements.
- IEEE Standard IEEE-80 and 81
- IEEE 142, Recommended Practice for grounding of Industrial and Commercial Power Systems.
- International Electrical Testing Association Inc. (NETA).

Agnico-Eagle Mines Ltd. <u>Croun</u>ding Installation and Testing Procedure



PRO Number : AEM-EL-PRO-002 Contract no. : C22498E



1.3 Design requirements

- Ground electrical equipment in accordance with ANSI/ IEEE Standard 142, IEEE
 Standard 80 and the requirements of this Section.
- Design shall be such that acceptable levels of step and touch potential are not exceeded either for exposure to plant personnel or for external exposure via transfer potentials.
- The grounding system consists of a number of above ground interconnected conductors to provide a network to which all equipment and metallic structures are connected, either directly or by interconnecting cables. Bond the ground system to the main plant ground grid system at places designated on the Drawings.

2. PRODUCTS

2.1 Materials

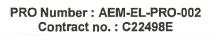
- Bare Cable: Uninsulated, stranded, tinned copper cable of adequate size for station and substation ground grids, for connection of electrical and other equipment to the grounding grid and for running along the top of underground ductbanks.
- Insulated Cable: Soft drawn copper, Class B stranding with green colored insulation (if required).
- All ground connection will be bolted or compress type.
- Furnish all connectors, clamps, anchors, fittings, etc., made of copper or copper-alloy.

3. EXECUTION

3.1 Installation

- Install products in accordance with manufacturer's instructions.
- Equipment Safety Grounding
 - Clamp the ground conductor running on building steel to the flanges of the steel and provide access for connecting equipment ground taps.
 - b. If ground conductor is installed along the cable trays as a continuous conductor, clamp the ground cable to the outside of the trays side rail with

Agnico-Eagle Mines Ltd. <u>Groun</u>ding Installation and Testing Procedure





appropriate cable tray clamps. Run the cable on the top power tray wherever possible. The cable may be run along control trays in runs that do not have power trays. Do not run ground cables on any instrument trays.

- c. For motors remote from the ground grid, run a bare ground cable with the duct bank or tray connecting the motor frame to the station ground grid.
- d. Provide all enclosures of electrical distribution or control equipment with a visible grounding cable connection between the enclosure and the station grounding system.
- e. Provide grounding cable taps to electrical equipment not shown on the Drawings sized to meet the requirements of the CSA C.22.1-02.
- f. Regardless of any regulatory body, no conductor smaller than 6 is permitted for an exposed ground circuit except for grounding instrument cases and secondary circuits of instrument transformers where 16 will be permitted.
- g. For equipment requiring grounding, provide a means for attachment of a ground cable to the enclosure. The grounding means may be a tapped hole in the enclosure with a matching bolt and a appropriate lug for copper cable. Hold-down bolts are not to be used for attaching grounding cables.
- h. Provide "packaged" or "skid-mounted" equipment with single-point connection to ground grid.
- Ground all metallic conduits above ground and underground in accordance with the requirements of the CSA C.22.1-02.
- j. Install the cable trays electrically continuous to meet the requirements of Article CSA C.22.1-02.. Install a bonding jumper in the gaps in the tray runs to provide continuity.

Circuit Grounding

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- a. Power circuits to include a circuit ground conductor terminated appropriately at source end ground bus connection and at the load.
- b. Size the circuit ground conductor in accordance with the CSA C.22.1-02.

Terminal Connections:

a. Provide connections of ground conductors to cable trays and conduit with copper clamps or straps or by grounding bushings. Remove non-conductive protective coatings such as paint, mill scales, oil, grease, oxides, or enamel

Agnico-Eagle Mines Ltd.



PRO Number : AEM-EL-PRO-002 Contract no. : C22498E



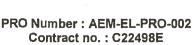
on the conduit fittings from the threads or contact surfaces before attaching grounding connection. After ground connection is attached, cover any remaining exposed bare metal with a coating matching the original coating.

- Above grade connections to equipment to be made using compression type connectors and bolted terminals.
- c. Below grade connections, cable-to-cable or cable-to-ground rods and cable-to-structural steel to be made using compression lug.
- d. Ground connections to piping to be generally "U clamp".
- e. Connections of ground conductors to columns and similar structures to be welded.
- f. Ground all cable shielding in accordance with the manufacturer's recommendations, or as directed by Owner.
- g. Provide connections of ground conductors to equipment by means of a lug which shall be compressed on the cable end. Bolt the lug to the equipment frame using holes or terminals provided by the equipment manufacturer for this purpose. Where no such provisions are made, drill suitable holes in locations designated by Owner. Hold-down bolts are not to be used for ground connections. Ground connections to motors to be bolted directly to motor frame, and not to sole plates or supporting structures. At all bolted connections, scrape the joining surfaces clean and coat with NO-OX-ID, or equal compound.

Control Cabinets Safety Ground

- a. Connect all metal control cabinets to the ground buses. Insulate wires for connections between individual devices and the ground bus. Provide individual ground connections for each device; no looping permitted.
- b. Do not make ground bus splice points coincident with the bolts which support the copper ground bus. Provide connections to the copper ground bus such that it is not necessary to open neither the ground bus nor any other connection to the bus to remove any ground connection. Separate bolted connections to the ground bus from the support and joint bolts.

Agnico-Eagle Mines Ltd.





- Control Cabinet Instrument Ground System:
 - a. Install an instrument ground system, conform to Client standard and engineering drawings
 - b. Install the instrument ground system in the following manner
 - Connect the main and branch insulated ground conductors to instrument ground bus.
 - II. Clearly label the instrument ground bus.
 - III. Ensure that no loops are in the instrument ground system.
 - c. "Reference" Distributed Control System (DCS) dc power "common" terminations and analog I/O field wiring shields to the instrument ground bus provided in each DCS enclosure. Provide all instruments and instrument cables with shields attached to only this instrument ground. Tape or insulate shielded cable with sleeves to prevent accidental grounding or touching of shields. Do not ground field ends.

3.2 Inspection and tests

NUQSANA PROMEC MINING

- <u>Visual and mechanical inspection</u>: Check and inspect the installation to ensure that
 the grounding system has been built as per the engineering design. Ensure all
 connections to electrodes and ground cable are tight and secure.
- Ground resistance testing is needed after installation of the grounding system, typically five ohms for commercial and small industrial sites and one ohm for utility & transmission substation grounds and large industrial plant substation grounds.
- Follow the recommended manufacturer or designer grounding resistance levels specified. In general – all efforts shall be targeted toward achievement of minimum grounding resistance.

AGNICO	EAGLE	Vendor Docu	ıment Status				
1 Proceed	d to next submis	ssion and status.	-				
2 Proceed	Proceed with exceptions as noted to next submission and status.						
	3 Do not proceed. Revise as noted and resubmit next submission and status.						
4 Comple	te, no further su	ıbmission required.					
LUC SE	ÉNÉCAL	Date:	2017-07-10				
design concept responsibility for limited to dimen Eagle does not contained hereir	of the Project a r the accuracy and sions and quantiti warrant the accur n, nor does Agnic	completeness of this doc es, remains with the Sur racy or completeness of	ntract Documents. Sole tument, including but not oplier/Contractor. Agnico any of the information oprove any construction				
Agnico Eagle No. 6	515-C-270-0	07-141 - TES-000	05 R: Sub002				
D	DOCUMENT FOR INFORMATION						





Agnico-Eagle Mines Ltd. Contract no. 6515-C-270-007

Electrical Apparatus, Equipment & Supports Installation Procedure

AEM-EL-PRO-004

System No.:	All			
PROMEC	: Approvals	\bigcap		
Prepared by:	Stéphane Doré	Signature	Date:	2017-04-25
Verified by:	Jonathan Roy	Signature:	Date:	2017-04-25
Approved by:	Éric Poulin	Signature:	_ Date:	2017-04-25
CLIENT A	Approvals			
Verified by:		Signature:	Date:	
Approved by:		Signature:	Date:	

Area No.:

All

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APPENDIX A - ALL APPLICABLE ITRs & LOG



AGNICO EAGLE

PRO Number : AEM-EL-PRO-004 Contract no. : C22498E

1. PURPOSE

The procedure is to establish the electrical apparatus, equipment and supports installation procedure.

1.1 Submittals

The following drawings, information and data will be submitted:

- As-built drawings showing final setting dimensions where different from the design drawings.
- As-built drawings of all relative installation drawings.

2. EXECUTION

2.1 Installation

2.1.1 GENERAL

- Install all equipment in a neat manner using qualified trade persons in complete accordance with the Drawings and the equipment manufacturers instructions and recommendations.
- Fabricate and install any necessary temporary steel supports, brackets and anchors
 required for equipment erection or installation. Design of such supports, brackets, and
 anchors are subject to engineers' approval. Upon completion, remove all temporary
 supports, sand smooth, prime and paint welds on permanent plant structures, grout
 temporary anchor holes left in concrete and return the area to the originally installed
 condition.
- Prior to setting equipment:
 - > Inspect equipment foundations for correctness in location, level, location of center lines, anchor bolt omissions, and height.
 - > Uniformly roughen foundation surfaces.
 - > Inspect all anchor bolts for straightness and damaged threads.
 - > Straighten bent anchor bolts using acceptable methods.
 - > Rerun bolts with damaged threads using suitable dies.
 - > Clean and oil anchor bolts.
- Install all items shipped loose with equipment.
- Mount items with appropriate hardware.
- Provide additions and modifications to structural steel, grating, or floor steel required to completely install the equipment.
- Fabricate racks and supports for miscellaneous enclosures, boxes, cabinets and housings from rolled steel shapes, bars, rods, etc. of standard section and/or from strut material with accessory members and fittings.





PRO Number : AEM-EL-PRO-004 Contract no. : C22498E

- Use proper and adequate handling equipment and rigging at all times and inspect such
 equipment frequently. Lift electronic cabinets with the use of slings; do not use lifting eyes.
 Obtain exact weights and dimensions from approved manufacturers drawings or
 manufacturers representatives to ensure the use of adequate handling equipment.
- Welding
 - > Perform in accordance with welding procedure
- Do not remove protective covers on flanges, pipe, or conduit connections until these connections are to be made.
- Fabrication and placing of shims:
 - Place shims, equipment baseplate, bedplates and soleplates as required for a minimum of 25 mm of grout such that shim pack thickness is no greater than 6 mm and no less than 3 mm for shims between the equipment and the top of the mounting plate.
 - > Cut down and refinish where required, the tops of baseplate, soleplates, or rough foundations to allow for grouting.
 - ➤ Install shims of the required size, thickness and quality at the appropriate locations so there will be no deflection, deformation, or strain induced into the equipment bedplate or soleplate.
 - > When the supporting structural steel frame is not level, taper the bottom shims to provide a level top bearing surface. Use a minimum number of shims at all times.
 - > Wherever possible, place shims while the bedplate or equipment is in a jacked-up position using jacking or levelling nuts where provided or other means as necessary. Driving of shims to achieve a level top bearing surface is not permitted.

2.1.2 EQUIPMENT

- General
 - Set stationary equipment such as switchgear, motor control centers, and skid mounted equipment in a true vertical and horizontal plane and set anchor bolts evenly as required.
 - Tighten gasketed joints evenly around the entire gasketed area to insure uniform contact pressure.
 - Install wiring in conformance with connection diagrams, including jumpers where shown on terminal blocks. Install and terminate all wiring in accordance with Promec's procedure No. AEM-EL-PRO-001.
 - Install grounding systems and lightning protection in accordance with Promec's procedure No. AEM-EL-PRO-002.
 - Install cable tray system in accordance with Promec's procedure No. AEM-EL-PRO-003.
 - Install and terminate all cable in accordance with Promec's procedure No. AEM-EL-PRO-001.
- Panel boards and Transformers
 - Mount panel boards and transformers as specified in Client standards.





PRO Number : AEM-EL-PRO-004 Contract no. : C22498E

Cabinets and Free Standing Panel boards

- > Handle, assemble, and maintain cabinets and free standing panels according to manufacturer's recommended procedures and documentation requirements.
- > Place cabinets and free standing panels immediately in their final positions, as shown on the drawing's temporary storage locations shall not be considered.
- > Wire cabinets and free standing panels in accordance with electrical wiring diagrams including jumpers shown on terminal blocks.

2.2 Personnel requirements

Provide qualified manufacturer's representatives for technical assistance as required.

2.3 Inspection and test requirements

- CEM Cabinets
 - > Thoroughly inspect, clean, and remove all foreign matter, dust, debris, dirt, etc. from equipment cubicles, compartments and insulators.
- Transformers
 - ➤ Megger all winding terminals (maximum 1 kV) in accordance with manufacturer's requirements and provide results to Client for review.
- Construction Checkout
 - Perform and document all inspections and test activities in accordance with manufacturer's recommendations.

2.4 Adjustment and Cleaning

Remove any protective, non-permanent coatings applied by the equipment manufacturer.

Clean external surfaces of all equipment and materials of dirt, grease, oil, loose rust

2.5 Corrosion Protection/Coatings

Following installation, touch-up all scratched or marred areas of manufacturer's primed or finished paint. Use the same paint as manufacturer's original finish or prime paint with surface preparation and paint application in accordance with the manufacturer's requirements.



AGNICO EAGLE

PRO Number : AEM-EL-PRO-004 Contract no. : C22498E

Appendix A

ALL APPLICABLE ITRs & LOGs

Vendor Document Status AGNICO EAGLE					
1 Proceed to next submission and status.					
Proceed with exceptions as noted to next submission and status.					
Do not proceed. Revise as noted and resubmit next submission and status.					
Complete, no further submission required.					
By: JEAN-FRANCOIS TREMBUAY JG Date: 2017-05-16					
Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.					
Agnico Eagle 6515-C-270-007-141-TES-0006 R: Sub001					
DOCUMENT FOR INFORMATION					

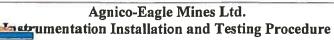




Agnico-Eagle Mines Ltd. Contract no. 6515-C-270-007

Instrumentation Installation and Testing Procedure AEM-IN-PRO-001

Area No.:	All			
System No.:	All			
PROMEC	C Approvals			
Prepared by:	Stéphane Doré	Signature:	Date:	2017-04-25
Verified by:	Jonathan Roy	Signature:	Date:	2017-04-25
Approved by:	Éric Poulin	Signature:	Date:	2017-04-25
CLIENT	Approvals	2		
Verified by:		Signature:	Date:	
Approved by:		Signature:	Date:	-





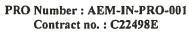




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APPENDIX A - ALL APPLICABLE ITRs & LOG

Agnico-Eagle Mines Ltd. Lastrumentation Installation and Testing Procedure



PRO Number : AEM-IN-PRO-001 Contract no. : C22498E



1 SCOPE

This procedure includes:

- Installation of:
 - > Field instruments
 - Field instrument racks and stands
- Installation of package equipment loose instruments.
- Installation of package equipment sensing tubing up to local control panel.
- Installation of specialty instruments.

2 PRODUCTS

2.1 Materials

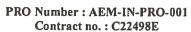
- Instruments: As identified in the Instrument List. The Instrument List is a listing of instruments to be installed after:
 - > Promec shall furnish all materials required for complete installation of control and instrumentation devices. Provide all tools and equipment required for the installation.
 - > Promec shall furnish instruments, control devices and instrument racks, stands, and enclosures.
 - Promec shall provide all calibration equipment as required in Sections 2.2 of this specification.
 - Promec shall furnish nameplates for all control and instrumentation equipment furnished or installed under these specifications, unless already provided. Nameplates shall be either of laminated phenolic (white background with black letters) or stainless steel. Engrave or stamp the nameplates with the Instrument Tag Numbers per the Instrument List. Attach phenolic type nameplates to control and instrumentation equipment by machine screws or stainless steel wire.

2.2 Inspection and Test Requirements

- Promec shall obtain the instruments from the receiving warehouse which has inspected them for obvious shipping damage and manufacturing defects. Promec will also inspect instruments for obvious shipping damage and manufacturing defects when they receive them. Each instrument will have been calibrated by the manufacturer. Vendor calibration report will be review by Promec for each instrument. The calibration of each instrument will be checked by Promec prior to installation.
- Promec shall use qualified and experienced personnel to perform adjustments and tests. Perform adjustments and tests as many times as necessary to assure proper operation of equipment and systems and quality of materials and workmanship.

Agnico-Eagle Mines Ltd. **Strumentation Installation and Testing Procedure







2.3 Cleaning

 Promec shall clean and remove any protective non-permanent, coatings applied by manufacturers. Clean equipment and material external surfaces of all dirt, grease, oil, loose rust, and other foreign material.

2.4 Corrosion Protection/Coatings

- Following installation, Promec shall touch-up all scratched or marred areas of Manufacturer's prime or finish painting. Promec shall use paint the same as Manufacturer's original finish or prime paint with surface preparation and paint application in accordance with the Manufacturer's requirements.
- Threads shall not be painted
- Stainless steel and other corrosion-resisting surfaces: do not paint.
- Machined surfaces: do not paint.
- · Omit paint at all areas: before field welding.

3 EXECUTION

3.1 Installation

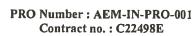
3.1.1 GENERAL

- Install all controls and instrumentation in accordance with the requirements of this Section. Any
 installation procedures not specified herein shall be done in accordance with the manufacturer's
 recommendations and good engineering practice.
- Promec shall utilize experienced workers for installation of all controls and instrumentation, tubing, and piping.
- Promec shall furnish all necessary craft personnel, supervision and scheduling required for the completion of instrument installation within the Owner's schedule.

3.1.2 Installation of Locally Mounted Equipment

- In addition to the installation requirements indicated on the drawings, the manufacturer's submittals, and the Instrument List, the requirements specified herein apply.
- Install all instruments and associated devices shall be installed in easily accessible locations for maintenance, calibration, and replacement. Take special care to assure that indicator type instruments are easily readable from the nearest accessible floor or platform elevation.
- Solenoid valves and control loop accessories not located in enclosures or mounted on valves shall be mounted in easily accessible protected locations near the components with which they are associated.
- All pressure gages (indicators) shall be installed bear the process connections, unless otherwise on the drawings and locate where easily read.
- Pressure switches not mounted in enclosures shall be installed on a wall or building column, or on pipe stands, near the piping or duct to which they are connected and mount to permit ease of adjustment.

Agnico-Eagle Mines Ltd. Leading Procedure





- All brackets, stands, supports, and other miscellaneous hardware shall be provided as required for mounting devices.
- Level transmitters, level controllers, and level switches of the displacer or float type shall be
 installed on vessel instrument piping columns as indicated on the piping detail drawings for that
 vessel. Top works of transmitters, controllers, and switches shall be provided as to positions
 which provide convenient access for operation and maintenance; perform prior to installation of
 tubing and wiring to the devices.
- Sight flow glasses shall be installed for maximum visibility.

3.1.3 INSTALLATION OF INSTRUMENT RACKS AND STANDS

NUQSANA PROMEC MINING

- Freestanding racks, stands, and enclosures to the floor shall be attached to concrete equipment bases or supporting steel, at locations indicated on the drawings. Shim shall be provided for proper alignment before bolting to the floor or grouting.
- Non-freestanding racks and enclosures shall be mounted in accessible locations on columns and walls. Brackets shall be fabricated as required to install the racks and enclosures in a workmanlike manner.
- Rough edges and welds on all fabricated supports shall be grinded smooth; surfaces shall be finished with coating.
- Racks shall be located to provide the shortest reasonable instrument impulse line lengths for each of the instruments mounted thereupon.

3.1.4 CONNECTION OF EQUIPMENT AND DEVICES

- Design pressure and maximum process temperature shall be limited below manufacturer's specified data for all instruments.
- After flow instrument installation, Promec shall verify the high and low sides of the instrument with respect to the direction of flow.
- When reservoir tees are required, bent pipe shall be used between the root valve and the tee unless there is a space limitation. Fittings may be used if space is limited.
- Reservoir tees to be installed on vertical lines shall be mounted at or above the process line connection. These reservoir tees shall be mounted at the same elevation.
- Reservoir tees shall be provide for each reference leg for differential pressure transmitter used to
 measure level on the steam drums, deaerator storage tank, or any tank containing both liquid and
 vapour. Reservoir tees shall be provided on all steam flow and pressure applications to insure
 complete fill of the sensing line during operation. Reservoir tees must not be insulated. A filling
 connection shall be provided on the reservoir tees for initial filling of the sensing line.

3.1.5 FLOW METER TUBING

- Process sensing connections shall be provided between flow indicators, transmitters, controllers, or switches and shutoff valves on the main piping in accordance with the Drawings.
- Where tubing is run in open type trays, covers shall be installed wherever the trays pass through an open area where it is possible that the tubes can be damaged from falling objects.

Agnico-Eagle Mines Ltd. Lastrumentation Installation and Testing Procedure



PRO Number: AEM-IN-PRO-001 Contract no.: C22498E



3.2 Inspection and Test Requirements

3.2.1 GENERAL

- Pre-operational adjustments, material and equipment tests shall be made as specified and as required by governing codes, regulations, manufacturers' recommendations, and good construction methods.
- Instrument functional loop checkout shall be made to resolve any discrepancies and correct any field problems which arise in the scope of work.
- Assemble, test, and adjust, as required, for correct and reliable operation the control and instrument equipment (including gages, switches, thermostats, and other devices) which are a part of major equipment.





PRO Number : AEM-IN-PRO-001 Contract no. : C22498E



Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE	Vendor Document Status					
1 Proceed to next submiss	sion and status.					
2 Proceed with exceptions	as noted to next submission and status.					
Do not proceed. Revise as noted and resi	Do not proceed. Revise as noted and resubmit next submission and status.					
4 Complete, no further sub	omission required.					
LUC SÉNÉCAL By:	2017-07-10 Date:					
design concept of the Project as responsibility for the accuracy and co- limited to dimensions and quantities Eagle does not warrant the accura- contained herein, nor does Agnico	ate are only for general conformance with the expressed in the Contract Documents. Sole completeness of this document, including but not is, remains with the Supplier/Contractor. Agnico cy or completeness of any of the information Eagle authorize or approve any construction ces or any safety precautions or procedures.					
Agnico Eagle No. 6515-C-270-00	7-141-TES-0008 R: Sub002					
DOCUMENT FOR INFORMATION						





Agnico-Eagle Mines Ltd. Contract no. 6515-C-270-007

Cable Tray Installation Procedure AEM-EL-PRO-003

Area No.:	All			
System No.:	All			
PROMEC	Approvals			
Prepared by:	Stéphane Doré	Signature:	Date:	2017-04-25
Verified by:	Jonathan Roy	Signature:	Date:	2017-04-25
Approved by:	Éric Poulin	_ Signature:	_ Date:	2474-15
CLIENT A	Approvals			
Verified by:	1	Signature:	Date:	
Approved by:	7	Signature:	Date:	

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	2.4	CORROSION PROTECTION/COATINGS	



Agnico-Eagle Mines Ltd. Cable Tray Installation Procedure

PRO Number : AEM-EL-PRO-003 Contract no. : C22498E



GENERAL

1.1 Section Includes

- · Cable Tray, Fittings, and Accessories.
- Hangers and Supports.

2. EXECUTION

2.1 Inspection and Preparation

 Before installation, inspect cable trays and fittings and clean off all dirt, cuttings, and other foreign material. Cut ends of the trays to be filed or ground to remove burrs and sharp edges, and coated to prevent rust.

2.2 Installation Requirements

- All Electrical Installations: in accordance with CSA Standard C22.1-06.
- In general, provide a recommended minimum vertical spacing between trays of 250 mm measured from the bottom of the upper tray to the top of the lower tray. Maintain minimum of 230 mm clearance between the top of the tray and beams, pipes, etc. for parallel runs, and 75 mm minimum for crossing runs. (Trays to be installed by others).
- Cut cable tray to size by use of a hack saw, or other approved tool. Do not flame cut trays or their accessories.
- Align cable trays carefully and level plumb and true. Secure the runs with at least two smooth head bolts at each support bracket.
- Supports for cable tray runs to be the cantilever or the trapeze type, fabricated of threaded
 rod, strut, and/or steel members and accessories. The support member is in contact with the
 cable tray and shall be approximately 75 mm longer than the width of the cable tray that it
 supports.
- Support cable trays at all bends, tees, dropouts, crossovers, risers, etc. as recommended by CSA Standard C22.2, No. 126.1-02.
- Fasten supports to building steel by means of beam clamps. Fasten supports to concrete by inserts or drilled-in anchors. Provide supports capable of supporting the ultimate tray loading capacity.



Agnico-Eagle Mines Ltd. Cable Tray Installation Procedure

PRO Number : AEM-EL-PRO-003 Contract no. : C22498E



2.3 Inspection and Test Requirements

- Perform inspections and tests normally used either in installation, construction processes or as called for by the applicable codes and standards.
- Upon completion of cable tray installation, inspect the interior surfaces of the tray run for any burrs or rough edges that could result in cable damage during cable installation. Remove burrs and rough edges.

2.4 Corrosion Protection/Coatings

• Where the galvanizing of cable tray supports is damaged, repair by the application of appropriate galvanizing repair paints.



Control System Description : Rankin Inlet Tank Farm



Revision: 1

For Start-up

Page: 1

Control System Description

Rankin Inlet Tank Farm - 65PLC11601

AGNICO EAGLE - MELIADINE DIVE

Rankin Inlet, Nunavut

Project No:

591700

Vendor Document Status

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Control System Description: Rankin Inlet Tank Farm



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1 Overview

The control system at Rankin Inlet tank farm consists of the following components:

- PLC cabinet located in the operator room with a HMI touchscreen for operation.
- Flow Controller Smith Meter located in the operator room.
- A flow control kit including one flow valve, one flow meter and one temperature probe connected to the Flow Controller to measure the transferred quantity per transaction.
- Two Variable Frequency Drive (VFD), one per transfer pumps (2).
- Scully Module with plug to allow truck ground proving and truck overfill prevention.
- Radar level transmitters and temperature transmitters for monitoring the diesel tanks (2).
- Motorized Operated Valve (MOV) to allow the transfer between tanks and truck.
- E-stops (3) located in the truck area, inside the pumping station and inside the operator room.
- Strobe light on each diesel tank and one common horn on the pumping station to indicate high level tank.

2 PLC

2.1.1 One PLC for the Rankin Inlet tank farm diesel distribution.

Manufacturer: Schneider, Model: BMEP582040

3 I/O cards

3.1.1 PLC Input and outputs cards connected to field devices are as following:

Module	Manufacturer	Model
32 digital inputs module (120 Vac)	Schneider	BMXDDI3202K
32 digital outputs module	Schneider	BMXDDO3202K
8 analog inputs module (4 -20 mA)	Schneider	BMXAMI0810
Ethernet backplane card	Schneider	BMENOC0321



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- 4 Human-Machine Interface (HMI)
- 4.1.1 One Touch screen HMI mounted in front of the PLC cabinet to monitor and control the transferred quantity from diesel tanks to tanker truck.

Manufacturer: Schneider, Model: HMIDT732 / HMIG3U

- 5 Flow controller
- 5.1.1 One Microload Flow controller c/w one flow meter, one digital flow valve and one RTD temperature to control the transferred quantity.

Instrument	Manufacturer	Model
Flow controller	FCM	Smith Meter ML-XP-STD-1,
		Microload
Flow valve (Digital pre-set valve) with	TCS	OCV 115-3
two 120 Vac solenoids		
Flow meter (positive displacement	TCS	700-40SP4DX
type)		
Pulse transmitter for flowmeter	TCS	DMP-100-3
RTD temperature sensor	FMC	TP-W-3C-2.5

- 6 Ground proving and overfill prevention device
- 6.1.1 A Scully module located beside the truck loading arm to connect to the tanker truck using a plug assembly. The 10-pins plug assembly allows the monitoring of up to 8 high level sensors and monitors the static ground verification on the tanker truck.

Manufacturer: Scully, Model: Intellitrol IC-OG, plug model: SC-8A

- 7 Motorized Operated Valve (MOV)
- 7.1.1 One MOV per vertical tank to control the tanks outlets. These valves are powered at 120 Vac and are controlled through 120 Vac output PLC cards. With one output configuration for the open command, it closes automatically when off. Open position, close position and fault status are monitored by the PLC.

Actuator Manufacturer: Rotork, Model: IQT500



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Valve Manufacturer: M.A Stewart, Model: F-150-CSF-SS-FS-N

- 8 Communication
- 8.1.1 Ethernet TCP/IP is used for communication between the PLC, the HMI, the flow controller and the VFDs.
- 9 Ethernet switches
- 9.1.1 One Ethernet switch inside the PLC cabinet connected to the PLC Ethernet communication card, dedicated for the HMI and the plant Ethernet network.

Manufacturer: Schneider, Model: TCSESM083F2CSO

9.1.2 One Ethernet switch inside the PLC cabinet connected to the PLC CPU Ethernet port, dedicated for Microload controllers and VFDs.

Manufacturer: Schneider, Model: TCSESM083F1CSO

- 10 Software
- 10.1 PLC Programming
- 10.1.1 Schneider Unity Pro software, version 11 is the PLC programming software for the Schneider M580 PLC.
- 10.2 HMI Programming
- 10.2.1 Vijeo Designer software, version 6.2 is the HMI touch screen programming software.
- 10.3 PLC Microload Controller exchange



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10.3.1 The communication protocol used to transfer data between the PLC and the Microload controller is Ethernet Modbus TCP/IP (Accumulated volume, Pre-set volume, Flow rate, etc). The Microload keypad is disabled, all controls are done through the PLC.

11 Functional Description

11.1 Truck Loading

1. At the truck area

- a. Connect the Scully Intellitrol plug to the tanker truck to allow ground proving and truck overfill prevention, then attach the loading arm to the truck.
- b. Green Bar indicator is ON steady on the Scully Intellitrol Module when the plug is properly connected and the ground contact is made. Red Bar indicator ON means Scully not ready or no lights ON means no power. The Intellitrol also monitors the truck compartment levels, if one or many compartments LED are ON that indicates a faulty level sensor.
- c. The Scully Intellitrol switch interlocks the 120 Vac power to the flow control valve. In case of high level in tanker truck or loss of truck grounding contact, the 120 Vac power is removed from the flow control valve and the valve closes. The fault status is wired to PLC through interposing relay to prevent any loading operation. The running sequence is then paused and equipment are stopped and valves closed.
- d. The Scully Intellitrol can be bypassed with a bypass key held against the side of the Intellitrol for 10 to 30 seconds. When in bypassed mode, the Intellitrol Bar indicator will blink green.
 - The maximum bypass time is settable from 15 to 60 minutes.
 - Bypass operation automatically ends when the vehicle is disconnected.
 - A faulty sensor can only be bypassed at initial truck hookup.
 - A sensor wet during loading can never be bypassed.
- 2. At the pumping station operator room Logging to the system
 - a. Two levels of user security are available at the HMI;
 - i. Operator username and PIN number 1111.
 - ii. Maintenance username and PIN number 2222.
 - b. At the operator security level, the truck loading sequence is fully automatic and there is no bypassed or manual mode available.