

PLC PANEL DOOR FRONT VIEW

PLC PANEL INTERIOR

PANEL GENERAL ARRANGEMENT

<u>NOTES:</u>

- 1. PANEL SIZE SHALL BE 610mm(H) x 406mm(W) x 118mm(D) (MIN. SIZE).
- 2. PANEL SHALL BE 12 GAUGE STEEL, CSA TYPE 12 SINGLE DOOR, WALL MOUNTED ENCLOSURE WITH GRAY POLYESTER POWDER COATING INSIDE AND OUT STANDARD OF ACCEPTANCE : HOFFMAN A-24N16ALP.
- 3. CONTRACTOR TO PROVIDE DETAIL PANEL DRAWING WITH DIMENSIONS.

SCALE: NOT TO SCALE

- 4. CONTRACTOR TO COORDINATE DETAILS, SIZE AND OPENINGS.
- 5. PROVIDE INPUT MODULES FOR ALARM MONITORING OF THE FOLLOWING (PROVIDE 30% FE SPARE I/O FOR FUTURE:
- RWP1; ON, OFF, ALARM/FAULT
- RWP2; ON, OFF, ALARM/FAULT
- HEAT TRACE #1; ALARM/FAULT
- HEAT TRACE #2; ALARM/FAULT DIESEL GENERATOR; AUTO, ON, OFF, FAULT
- FUEL TANK; LOW ALARM
- ALL ALARMS (MAJOR & MINOR)

<u>ALARMS</u>

MAJOR ALARM (DIAL OUT)

intake pump failure RWP 1 & 2 LOW BUILDING TEMP POWER OFF - STAND-BY GENERATOR FAIL VERY LOW FUEL HEAT TRACE LOW TEMP RWP 1 & 2

MINOR ALARM (LOCAL ANNUCIATOR ONLY)

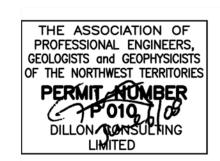
HIGH BUILDING TEMP POWER OFF - STAND-BY GENERATOR ON LOW FUEL TEMP HIGH WASTE WATER TANK LEVEL HEAT TRACE GENERAL FAULT GENERATOR GENERAL FAULT

- 6. PROVIDE PLC TO ACCOMMODATE FOR THE ABOVE CAPTIONED INPUT. ACCEPTABLE PLC: CONTROL MICRO SYSTEM (SCADA PACK), SIEMENS(S7-200 SERIES) W10 (DATA PACK) PHOENIX. PROVIDE ALL NÈCESSARY ACCESSORIES ÀS INDICATED INCLUDING POWER SUPPLY, UPS AND MODEM MODULE FOR A COMPLETE SYSTEM.
- 7. PROVIDE A FOUR (4) CHANNEL AUTO DIALER TO DIAL OUT ON ANY MAJOR ALARM/FAULT. PROGRAM AS INSTRUCTIONS AT SITE.
- 8. PROVIDE ONE COPY AND LICENSE OF THE SYSTEM MANUFACTURER'S PROPRIETARY SCADA SOFTWARE AND INSTALL ON THE SCADA COMPUTER.
- 9. PROVIDE A DESKTOP SCADA COMPUTER INCLUDING:
- 19" LCD MONITOR - 500 GB HARD DRIVE
- PROCESSOR AND MEMORY ACCORDING TO SCADA MANUFACTURER'S RECOMMENDATIONS (MIN; CORE II DUO 2QHZ CPU AND 1 GB MEMORY)
- DVD Z BURNER
- KEYBOARD AND OPTICAL MOUSE - EXTERNAL US ROBOTICS MODEM
- 10/100 ETHERNET CARD
- OPERATING SYSTEM PER SCADA MANUFACTURER'S RECOMMENDATIONS.

10. SYSTEM TO BE SIMILAR TO CURRENTLY ADVERTISED COMPLETE SYSTEMS BY MAJOR MANUFACTURERS (DELL, HP, ETC.)

11. INSTALL SCADA SÒFTWARE AND TRAIN TWO PEOPLE AS INTRODUCED BY CLIENT.

ORIGINAL SIGNED BY ENGINEER









				DESIGN	REVIEWED BY	
				SAI	GS	
				DRAWN	CHECKED BY	
				JPM	GS	
				01 101		
				DATE		
3	ISSUED FOR TENDER	06/06/08	GS	JUNE 2008		
2	ISSUED FOR 100% CLIENT REVIEW	04/30/08	GS			
1	ISSUED FOR CLIENT REVIEW	03/15/08	GS	SCALE N7	rs	
No.	ISSUED FOR	DATE	BY			

FIELD LOCATION

LOCATION

PANEL#

TALOYOAK WATER TREATMENT PLANT TALOYOAK, NUNAVUT	PROJECT NO. 07-8107-2000
	SHEET NO.
INSTRUMENTATION AND CONTROL	405

LOCAL CONTROL PANEL

PANEL#

CB 15A SURGE	PANEL LIGHTING 120VAC-EN NORMAL POWER ENABLE
PROTECTION	AUTO DIALER COMMUNICATION MODULE TELEPHONE INTERFACE DIAL IN (MODEM) PLC PROGRAMMER RECEPTACLE PLC PROGRAMMER POWER PLC PROGRAMMER RECEPTACLE PLC POWER SUPPLY MODULE
	24 VDC POWER SUPPLY
	REFER TO SPECIFICATIONS AND GENERAL NOTES: PLC 24VDC NORMAL POWER ENABLE POWER ENABLE PLC UPS POWER ENABLE

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.