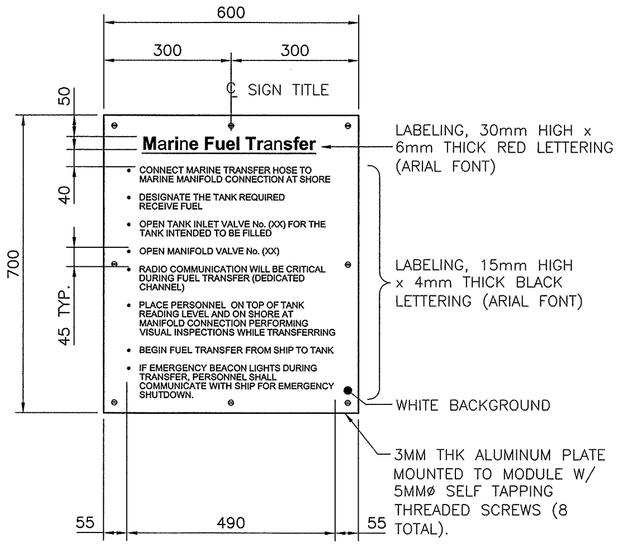
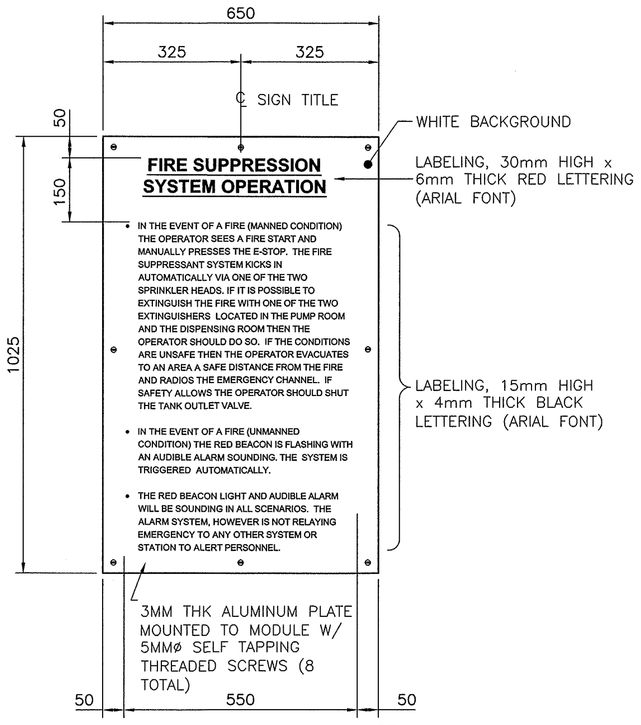
DWG. NO. H349000-2613-60-011-0014



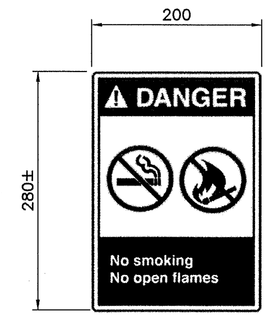
- CONNECT MARINE TRANSFER HOSE TO MARINE MANIFOLD CONNECTION AT SHORE
- DESIGNATE THE TANK REQUIRED RECEIVE FUEL
- OPEN TANK INLET VALVE No. (XX) FOR THE TANK INTENDED TO BE FILLED
- OPEN MANIFOLD VALVE No. (XX)
- RADIO COMMUNICATION WILL BE CRITICAL DURING FUEL TRANSFER (DEDICATED CHANNEL)
- PLACE PERSONNEL ON TOP OF TANK READING LEVEL AND ON SHORE AT MANIFOLD CONNECTION PERFORMING VISUAL INSPECTIONS WHILE TRANSFERRING
- BEGIN FUEL TRANSFER FROM SHIP TO TANK
- IF EMERGENCY BEACON LIGHTS DURING TRANSFER, PERSONNEL SHALL COMMUNICATE WITH SHIP FOR EMERGENCY SHUTDOWN.

DETAIL 1 — 2613-60-011-0010
MARINE FUEL TRANSFER PROCEDURE SIGN
SCALE: 1:10

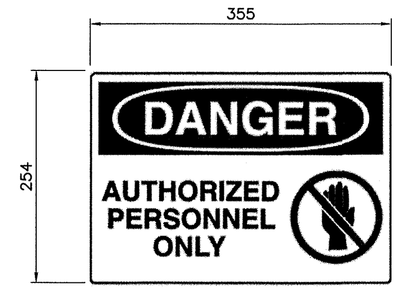


- IN THE EVENT OF A FIRE (MANNED CONDITION) THE OPERATOR SEES A FIRE START AND MANUALLY PRESSES THE E-STOP. THE FIRE SUPPRESSANT SYSTEM KICKS IN AUTOMATICALLY VIA ONE OF THE TWO SPRINKLER HEADS. IF IT IS POSSIBLE TO EXTINGUISH THE FIRE WITH ONE OF THE TWO EXTINGUISHERS LOCATED IN THE PUMP ROOM AND THE DISPENSING ROOM THEN THE OPERATOR SHOULD DO SO. IF THE CONDITIONS ARE UNSAFE THEN THE OPERATOR EVACUATES TO AN AREA A SAFE DISTANCE FROM THE FIRE AND RADIOS THE EMERGENCY CHANNEL. IF SAFETY ALLOWS THE OPERATOR SHOULD SHUT THE TANK OUTLET VALVE.
- IN THE EVENT OF A FIRE (UNMANNED CONDITION) THE RED BEACON IS FLASHING WITH AN AUDIBLE ALARM SOUNDING. THE SYSTEM IS TRIGGERED AUTOMATICALLY.
- THE RED BEACON LIGHT AND AUDIBLE ALARM WILL BE SOUNDING IN ALL SCENAROS. THE ALARM SYSTEM, HOWEVER IS NOT RELAYING EMERGENCY TO ANY OTHER SYSTEM OR STATION TO ALERT PERSONNEL.

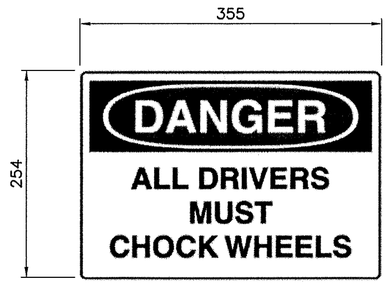
DETAIL 2 — 2613-60-011-0013
SYSTEM FIRE PROCEDURE SIGN – FUELING MODULE
SCALE: 1:10



DETAIL 6 — 2613-60-011-0011 TO 0013
NO SMOKING OR OPEN FLAME (6 REQUIRED)
SCALE: 1:5



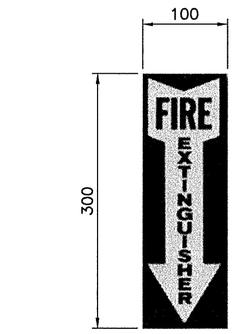
DETAIL 7 — 2613-60-011-0011 TO 0013
AUTHORIZED PERSONNEL SIGN (4 REQUIRED)
SCALE: 1:5



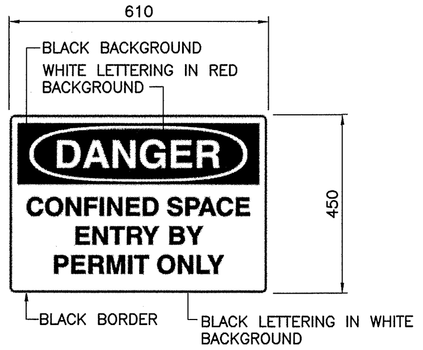
DETAIL 8 — 2613-60-011-0013
CHOCK WHEELS SIGN
SCALE: 1:5

SPECIFICATION AND INSTALLATION NOTES:

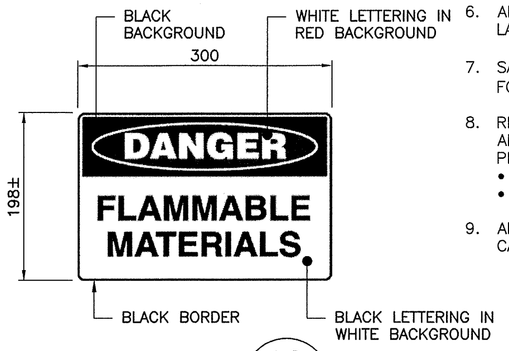
1. SIGNS ARE BE CONSTRUCTED OF PERMANENT 4 MIL SELF-STICK VINYL FOR ADHESION TO EXISTING PIPING AND EQUIPMENT.
2. ALL EQUIPMENT AND PRODUCT IDENTIFICATIONS TO BE FIELD LOCATED UNLESS OTHERWISE NOTED.
3. MARKINGS SHALL BE LOCATED SO THEY CAN BE EASILY READ AND UNOBSTRUCTED BY EQUIPMENT, ACCESS STAIRS & PLATFORMS, RELIEF PIPING, ETC.
4. MARKINGS SHALL BE VISIBLE FROM THE POINT OF NORMAL APPROACH.
5. PIPE MARKINGS SHALL BE PLACED NEAR VALVES, PRODUCT LINE DESIGNATIONS AND CHANGES IN PIPE DIRECTION AND AT SPACING AS INDICATED.
6. ALL PRODUCT IDENTIFICATION LETTERING AND LABELS SHALL BE VINYL STICK-ON.
7. SAMPLE LETTERING/LABELS SHALL BE PROVIDED FOR OWNER REVIEW/APPROVAL.
8. REFERENCE CODES FOR VALVE TAG SHAPES AND COLOR CODING AS PER PETROLEUM PRODUCTS DISTRIBUTION SYSTEMS 151930:
   - NATIONAL FIRE CODE OF CANADA 2010.
   - CPPI RECOMMENDED PRACTICE 2009.
9. ALL IDENTIFYING LETTERS SHALL BE UPPER CASE ARIAL FONT OR SIMILAR.



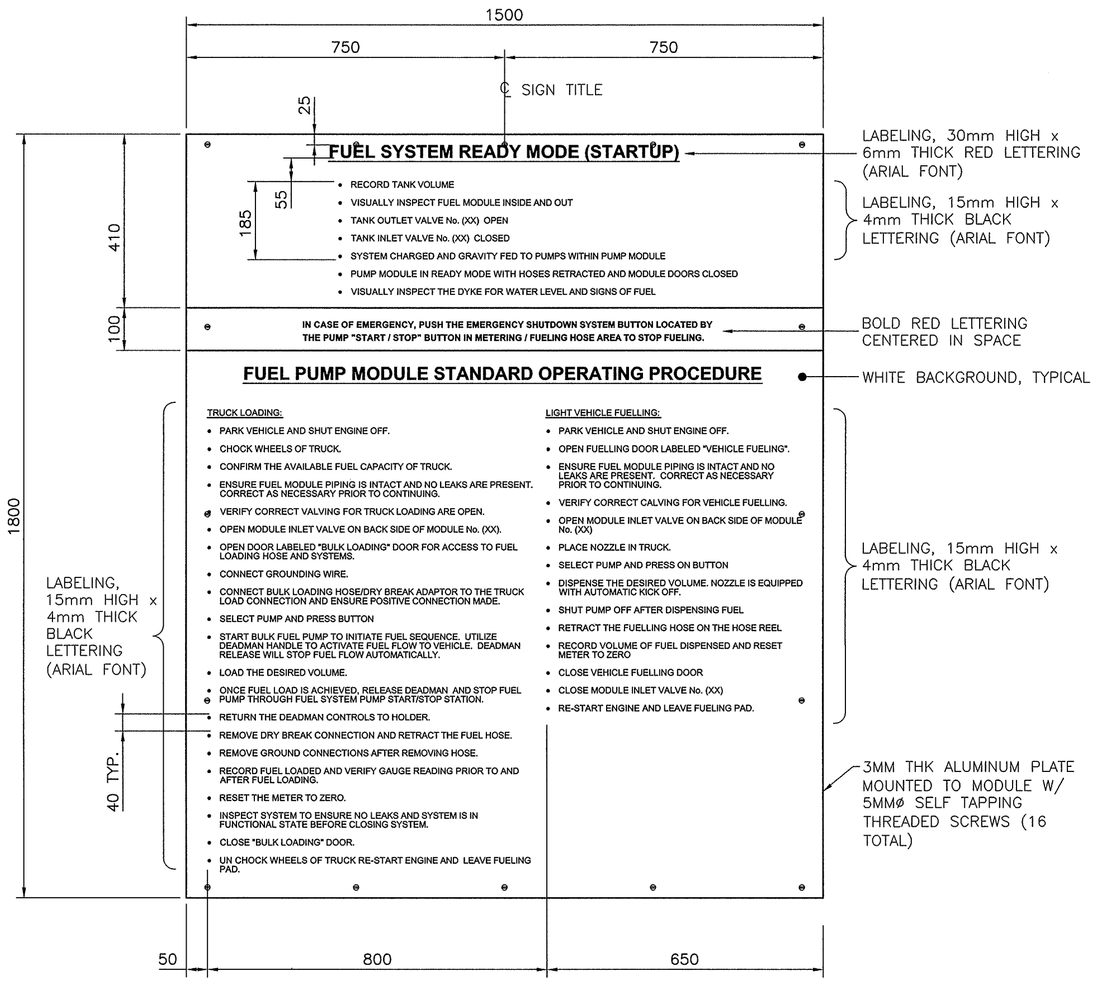
DETAIL 9 — 2613-60-011-0013
FIRE EXTINGUISHER SIGN
SCALE: 1:5



DETAIL 10 — 2613-60-011-0011 & 12
CONFINED SPACE ENTRY SIGN (4 REQUIRED – 1 PER TANK MANYWAY)
SCALE: 1:10



DETAIL 12 — 2613-60-011-0011 & 12
FLAMMABLE STORAGE SIGN (4 REQUIRED)
SCALE: 1:5



- RECORD TANK VOLUME
- VISUALLY INSPECT FUEL MODULE INSIDE AND OUT
- TANK OUTLET VALVE No. (XX) OPEN
- TANK INLET VALVE No. (XX) CLOSED
- SYSTEM CHARGED AND GRAVITY FED TO PUMPS WITHIN PUMP MODULE
- PUMP MODULE IN READY MODE WITH HOSES RETRACTED AND MODULE DOORS CLOSED
- VISUALLY INSPECT THE DYKE FOR WATER LEVEL AND SIGNS OF FUEL

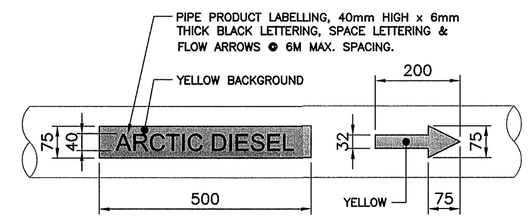
TRUCK LOADING:

- PARK VEHICLE AND SHUT ENGINE OFF.
- CHOCK WHEELS OF TRUCK.
- CONFIRM THE AVAILABLE FUEL CAPACITY OF TRUCK.
- ENSURE FUEL MODULE PIPING IS INTACT AND NO LEAKS ARE PRESENT. CORRECT AS NECESSARY PRIOR TO CONTINUING.
- VERIFY CORRECT VALVING FOR TRUCK LOADING ARE OPEN.
- OPEN MODULE INLET VALVE ON BACK SIDE OF MODULE No. (XX).
- OPEN DOOR LABELED "BULK LOADING" DOOR FOR ACCESS TO FUEL LOADING HOSE AND SYSTEMS.
- CONNECT GROUNDING WIRE.
- CONNECT BULK LOADING HOSE/DRY BREAK ADAPTOR TO THE TRUCK LOAD CONNECTION AND ENSURE POSITIVE CONNECTION MADE.
- SELECT PUMP AND PRESS BUTTON
- START BULK FUEL PUMP TO INITIATE FUEL SEQUENCE. UTILIZE DEADMAN HANDLE TO ACTIVATE FUEL FLOW TO VEHICLE. DEADMAN RELEASE WILL STOP FUEL FLOW AUTOMATICALLY.
- LOAD THE DESIRED VOLUME.
- ONCE FUEL LOAD IS ACHIEVED, RELEASE DEADMAN AND STOP FUEL PUMP THROUGH FUEL SYSTEM PUMP START/STOP STATION.
- RETURN THE DEADMAN CONTROLS TO HOLDER.
- REMOVE DRY BREAK CONNECTION AND RETRACT THE FUEL HOSE.
- REMOVE GROUND CONNECTIONS AFTER REMOVING HOSE.
- RECORD FUEL LOADED AND VERIFY GAUGE READING PRIOR TO AND AFTER FUEL LOADING.
- RESET THE METER TO ZERO.
- INSPECT SYSTEM TO ENSURE NO LEAKS AND SYSTEM IS IN FUNCTIONAL STATE BEFORE CLOSING SYSTEM.
- CLOSE "BULK LOADING" DOOR.
- UN CHOCK WHEELS OF TRUCK RE-START ENGINE AND LEAVE FUELING PAD.

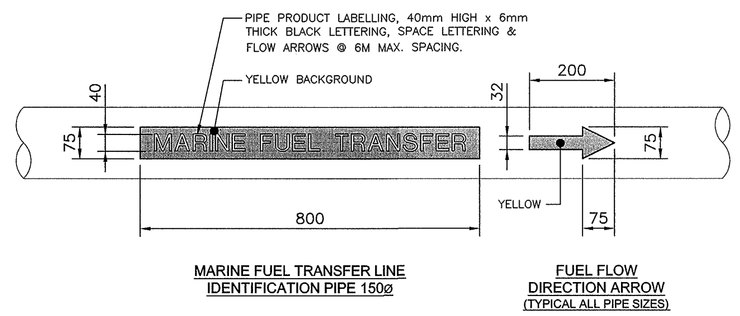
LIGHT VEHICLE FUELLING:

- PARK VEHICLE AND SHUT ENGINE OFF.
- OPEN FUELLING DOOR LABELED "VEHICLE FUELING".
- ENSURE FUEL MODULE PIPING IS INTACT AND NO LEAKS ARE PRESENT. CORRECT AS NECESSARY PRIOR TO CONTINUING.
- VERIFY CORRECT CALVING FOR VEHICLE FUELLING.
- OPEN MODULE INLET VALVE ON BACK SIDE OF MODULE No. (XX)
- PLACE NOZZLE IN TRUCK.
- SELECT PUMP AND PRESS ON BUTTON
- DISPENSE THE DESIRED VOLUME. NOZZLE IS EQUIPPED WITH AUTOMATIC KICK OFF.
- SHUT PUMP OFF AFTER DISPENSING FUEL
- RETRACT THE FUELLING HOSE ON THE HOSE REEL
- RECORD VOLUME OF FUEL DISPENSED AND RESET METER TO ZERO
- CLOSE VEHICLE FUELLING DOOR
- CLOSE MODULE INLET VALVE No. (XX)
- RE-START ENGINE AND LEAVE FUELING PAD.

DETAIL 3 — 2613-60-011-0013
FUEL PUMP MODULE STANDARD OPERATING PROCEDURE SIGN
SCALE: 1:10



DETAIL 11 — 2613-60-011-0010
PRODUCT LINE ID
SCALE: 1:10



DETAIL 13 — 2613-60-011-0010
PRODUCT LINE ID
SCALE: 1:10

DRAWING NO.	DRAWING TITLE

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NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
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REVISIONS

REGISTERED PROFESSIONAL ENGINEER — F.E. BUTTS — LICENSED — NWT/NU

REV.	ISSUE FOR	AUTH. BY	DATE
0	ISSUED FOR CONSTRUCTION	DS FR	13-07-23

ISSUE AUTHORIZATION

HATCH™

DESIGNED BY	DRAWN BY
D. STEPHENSON DATE 13-07-05	B. BROPHY DATE 13-07-05
CHECKED BY DATE 13-07-23	DISCIP. ENGR DATE 13-07-23
PROJ. DES. COORD. T. THERTELL DATE 13-07-23	PROJ. ENGR. J. CLELAND DATE 13-07-23
PROJ. MGR. S. PERRY DATE 13-07-23	

Baffinland

MARY RIVER PROJECT

MILNE INLET
FUEL SYSTEM UPGRADE
OPERATING PROCEDURES SIGNAGE

SCALE AS NOTED OR AS NOTED | DWG. NO. H349000-2613-60-011-0014 | REV. 0

ORIGINAL SHEET SIZE: ISO A1 (841 x 594)

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