| | | | | urai Kesouro RE VESSEL | Limited LINFORMATION | | | Job # 05.001541 | | |
|---|---|--------------------------|------------|---------------------------|---|--------|-----------|-----------------|--|--|
| District: Ft St John B.C. | | | | | | | | | | |
| Facility: Townsend Battery | | | | Locat | Location (LSD): a – 17 – J / 94 – B – 09 | | | | | |
| Vessel Name & Equipment Number: High Pressure Flare Kno | | | | | , | | | | | |
| Orientation: H | | | | | | | | | | |
| Status: Operating | | | | Regul | atory Inspection | | | | | |
| Status. O | crating | PRESSUE | RE VES | | PLATE DATA | | | | | |
| | | Registration Numbe | | | Number | | | | | |
| A 480049 | | | | | K 2109.12 | | | | | |
| Vessel serial number: 12492 Shell thickness: 9.5 mm | | | | | Size: 96 in. x 10 ft. Shell material: SA 516 70 | | | | | |
| Head thickness: 7.95 mm | | | | | Head material: SA 516 70 | | | | | |
| Tube wall thicks | | | | | Tube material: SA 516 70 | | | | | |
| Tube diameter: | icss. | | | | Tube length: | | | | | |
| Channel thickne | ess: | | | | Channel material: | | | | | |
| Design pressure | Shell: 50 psi Operating pressure Shell: | | | | | : | | | | |
| Tubes: | | | | Орен | Operating pressure | | Tubes: | | | |
| Design Temp. | Temp. Shell: 200 deg F Tubes: Operation Heat tree | | | ating temperature | Shell: | • | | | | |
| Tubes: | | | - | | | Tubes: | | | | |
| X-ray: Nil | | | | | Heat treatment: Nil | | | | | |
| | arameters: ASME VIII / Div 1 Coated: Yes | | | | | | | | | |
| Manufacturer: E | | | | | Year built: 2001 | | | | | |
| Corrosion allow | ance: 3.2 mm | | | | vay: Yes | | | | | |
| | | PRESSURE S | AFETY | VALVE NA | MEPLATE DATA | 1 | | 1 | | |
| Tag No | Manufacture | Model Serial # | | 1# | Set Press | | Capacity | Size | | |
| | | | | | | | | | | |
| Serv By | Date Code | | Block | x Valve | Location | CRN | # | | | |
| | | | | | | | | | | |
| | | SERVICE CONI | DTIONS | S-INDICATI | E ALL THAT APP | LY | | | | |
| Sweet X | | | | Oil | | | X | Water X | | |
| Amine | ne LPG Condensate X Air Gl | | | | Glycol | | | | | |
| Other (Describe |): | | | | | | | | | |
| Reports reviewed and | n conjunction with C | hief Inspector following | guidelines | s of CNRL's Ov | Service Interval_ vner-User Inspection Pro | | x 5 Years | | | |
| Page 1 | of 3 | CNRL: Townsend I | Rattery | Ī | H.P. Flare Knock | Out | Λ | 480049 | | |
| 1 age 1 (| ر بر | CITICL. TOWNSENG I | rancı y | | 11.1 . I Tai C KHOCK | Jui | A | T000T2 | | |

| External Inspection Items | G | F | P | N/A | Comments |
|--|---|---|---|-----|--|
| | | | | | |
| Insulation: Verify sealed around manways, | | | | | Tar covered foam insulation. Good condition, no open or torn |
| nozzles, no damage present, and there is no | X | | | | sections. |
| egress of moisture. | | | | | |
| External Condition: Assess paint condition, | | | | | |
| areas peeling, record any corrosion, damage, | | | | X | |
| etc (record location, size and depth of | | | | | |
| corrosion or damage) | | | | | |
| Leakage: Record any leakage at flanges, | X | | | | No leaks detected. |
| threaded joints, weep holes on repads, etc. | | | | | |
| Saddles: Assess condition of paint, fire | | | | | No buckling or distortion to saddles – no mechanical damage. |
| protection, concrete. Look for corrosion, | X | | | | No signs of leaks at saddle to shell attachment area. |
| buckling, dents, etc. Look at vessel surface | | | | | |
| area near supports. Verify no signs of leakage | | | | | |
| at attachment to vessel and attachment welds | | | | | Skid package is grounded. |
| are acceptable. Ground wire attached? | | | | | |
| Anchor Bolts: Hammer tap to ensure | | | | | Firmly welded to skid. |
| secure. Look for cracking in treads or signs of | X | | | | · |
| deformation. | | | | | |
| Concrete foundation: Check for cracks, | | | | | |
| spalling, etc. | | | | X | |
| Ladder / Platform: Describe general | | | | | |
| condition, ensure support is secure to vessel, | | | | X | |
| describe any hazards. | | | | | |
| Nozzle: Assess paint, look for leakage, and | | | | | No visible deflection – outer surface is insulated. |
| ensure stud threads are fully engaged. Record | X | | | | All studs fully engaged to nuts – no short bolts. |
| any damage, deflection, etc. Are nozzles | | | | | Nozzles are not gusseted. |
| gusseted? | | | | | |
| Gauges Ensure gauges are visible, working, | | | | X | No gauges. |
| no leakage, and suitable for range of MAWP/ | | | | | |
| Temp. | | | | | |
| External Piping Ensure pipe is well | | | | | Firmly supported – no deflection – no corrosion. |
| supported. | X | | | | Piping is insulated – no exposed metal. |
| Valving: Ensure no leaks are visible. Valves | | | | | Well supported - no leaking detected. |
| are properly supported and chained if | X | | | | - |
| necessary. | | | | | |
| PSV: Ensure PSV is set at pressure at or | | | | | Atmospheric – discharges to flare. |
| below that of vessel. Discharge piping is same | | | | X | |
| size as inlet to valve and is properly supported | | | | | |
| and routed. Ensure no block valves between | | | | | |
| psv and vessel or if there are they are locked | | | | | |
| open. | | | | | |
| NDE methods: Was UT/ MPI done on vessel | | | | X | No NDE at this time. |
| (MI coordinator to review results) | | | | | |

Recommendations or corrective actions: Vessel is Fit for Service or describe corrective actions required)

(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

Recommendations: No recommendations at this time.

Summary: This vessel is in very good overall condition, visual external carried out – internal of vessel is coated – no items of concern.

Vessel is fit for service.

Inspected By: D. Wiedman Date: March 21 – 2008

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H.P. Flare Knock Out Drum - A 480049

