



NDE REPORT # 20130620b

Date (m/d/y): 06/20/2013 Page 1 of 2
 Applus RTD Job Number: 10.113250
 Applus RTD Department: Grande Prairie Asset

Client: Canadian Natural Resources Ltd.
 Address: Fort St. John, BC
 PO/WO:

Job location: Milligan Battery
 Procedure(s): MT Rev. #:
 Code / Standard: ASME VIII Div. 1
 Client Specification:

Part (s) Examined: CN5056 – Line Heater Fire Tube
 Calibration Standard: CP-103 Material: Carbon Steel Thickness:
 Surface Condition: Weldment Ground Machined Sandblasted Painted Other:
 Method: MT PT VT Other: Surface Temp (°C): < 5 > 5 < 60 > 60

Equipment			Test Medium	Family	Batch #	Technique	
Type	S/N or Asset #	Calibration Due Date (m/d/y)				MPI	LPI
<input checked="" type="checkbox"/> Yoke	17409	01/01/2014		Magnaflux		<input checked="" type="checkbox"/> AC	<input type="checkbox"/> Water Washable (A)
<input type="checkbox"/> Perm. Magnet				Magnaflux		<input type="checkbox"/> DC	<input type="checkbox"/> P.E. Lipophilic (B)
<input type="checkbox"/> Coil				Magnaflux		<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Solvent Removable (C)
<input type="checkbox"/> Blacklight				Magnaflux		<input type="checkbox"/> Residual	<input type="checkbox"/> P.E. Hydrophilic (D)
<input type="checkbox"/> Alloy Analyzer						<input type="checkbox"/> Other	
<input type="checkbox"/> Hardness Tester							
<input type="checkbox"/> Other							
			Dwell Time:				
			Developer Time:				

Blacklight Intensity ≥ 1000 μW/cm² @ surface of part: Accept Whitelight Intensity ≥ 100 fc @ surface of part: Accept

INSPECTION DETAILS

Scope: Perform black and white magnetic particle inspection on Fire Tube Welds

Results: MPI carried out on fire tube – no cracking detected

Reviewed By: Dellas Wiedman
 Discipline: CGSB ASNT SNT Level: 2 3
 UT MT PT ET RT VT
 Signature:

Technician: Andrew Neis
 Discipline: CGSB ASNT SNT Level: 1 2 3
 UT MT PT ET RT VT
 Signature:

*Results are an interpretation of the inspection method, not a guarantee. Client signature indicates acceptance of report, results and applicable charges.
 T094 Rev 7
 Apr. 06, 2013

Client
Name:

Client
Signature:

Date:(m/d/y)



Fire Tube Overview