Client: Canadian Natural Resources Ltd. Address: Fort St. John, BC PO/WO: Part (s) Examined: 3 and 4 inch nozzles weld repair – A0225408 Free	NDE REPORT # 20130623a Date (m/d/y): 06/23/2013 Page 1 of 2 Applus RTD Job Number: Applus RTD Department: Grande Prairie Asset Job location: Milligan Battery Procedure(s): MT Rev. #: Code / Standard: ASME VIII Div. 1 Client Specification:
Calibration Standard: CP-103 Ma Surface Condition: ⊠ Weldment ⊠ Ground □ Machined □ Sandb	aterial: Carbon Steel Thickness: lasted Painted Other:
Method: \square MT \square PT \square VT \square Other: Surface Temp (\square C°): \square < 5 \square > 5 \square < 60 \square > 60	
Type S/N or Calibration Due Asset # Date (m/d/y) Test Medium	m Family Batch # Technique
☑ Yoke 17409 01/01/2014 WCP / 7W ☐ Perm. Magnet	MPI LPI AC Water Washable (A) DC P.E. Lipophilic (B) Continuous Residual PI Water Washable (A) P.E. Lipophilic (B) Solvent Removable (C) P.E. Hydrophilic (D) Tell Time: Other
Blacklight Intensity $\geq 1000 \ \mu\text{W/cm}^2$ @ surface of part: \square Accept Whitelight Intensity $\geq 100 \ \text{fc}$ @ surface of part: \square Accept	
Scope: Perform black and white magnetic particle inspection on three nozzle weld repairs and fill weld on shell Results: MPI reveled one 2 inch crack on repaired nozzle #2 – metal was excavated down 0.400 inch into shell to remove defect – metal loss was re-filled and MPI performed again – No further cracking detected	
Reviewed By: Dellas Wiedman ☐ CGSB ☐ ASNT ☐ SNT Level: ☐ 2 ☐ 3	Technician: Andrew Neis ☐ CGSB ☐ ASNT ☐ SNT Level: ☐ 1 ☐ 2 ☐ 3
Discipline: UT MT PT ET RT VT Signature:	Discipline: UT MT PT ET RT VT Signature:
Client Client Name: Signature:	Date:(m/d/y)

