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GENERAL UT/MPI REPORT

System
Project
Site Name
JT/GW#
License #
Inspection Date

Rainbow NPS 20"
Evi - Utikuma
2011 NPS 20" Rupture
55290 to 55330
5592-1

2-May-11

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EQUIPMENT OWNER
PLAINS MIDSTREAM

AUTHORIZED INSPECTOR

INTEGRITY ENGINEER
ONSITE CLIENT REPRESENTATIVE

MINH HO
JOE HUGO

ULTRASONIC STRAIGHT BEAM INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 2	UT 1	CSA / CEPA	ASME SECTION V

EQUIPMENT EMPLOYED

PANAMETRICS EPOCH 4 S/N 061469107 CALIBRATED 21 OCT 10
0.250" STRESSTEL 5.0 MHz DUAL MODE TRANSDUCER MICRO DOT CABLES

ULTRASONIC ANGLE BEAM INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 2	UT 2	CSA / CEPA	ASME SECTION V

EQUIPMENT EMPLOYED

PANAMETRICS EPOCH 4 S/N 061469107 CALIBRATED 21 OCT 10
0.250" PANAMETRICS 5.0 MHz PULSE ECHO TRANSDUCER MICRO DOT CABLES
PANAMETRICS 45 and 70 DEGREE LUCITE WEDGES

MAGNETIC PARTICLE INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 3	MT 1 / MT 2	CSA / CEPA	ASME SECTION V

MAGNETIZATION

METHOD	CURRENT	FIELD
YOKE	AC	CONTINUOUS

SURFACE PREPARATION
BUFFED

MEDIUM
DRY / WET

SURFACE PROFILE
N/A

PARTICLE

TYPE	APPLICATION	SIZE
CCMPI	AEROSOL / HAND	1-150 µm

SURFACE FINISH
SSPC-SP-3

DEMAGNETIZATION
N/A

POST CLEANING METHOD
N/A

EQUIPMENT EMPLOYED

Magnaflux Model 46530 AC Yoke S/N WAV-2 Calibrated 12 January 11
10 lb Test Weight S/N WAV-MTCB10LB1
WCP-2 CONTRAST PAINT, 7HF PREPARED BATH AND RED DRY POWDER

COMMENTS

JT 55330 DOWNSTREAM STOPPLE

AS PER CUSTOMER REQUEST A ZERO DEGREE LAMINATION SCAN WAS DONE TO ENSURE OF NO FOREIGN MATERIAL IN THE PARENT MATERIAL BEFORE THE INITIAL BUTTER PASSES WERE DONE, AS WELL AS THE DSAW LONGSEAM WAS INSPECTED BY WAY OF SHEAR WAVE ULTRASONICS BEFORE ANY BUFFING OF THE LONG SEAM WAS PERFORMED. ALL WELD PASSES IN THE HORIZONTAL AND CIRCUMFERENTIAL DIRECTIONS ON THE STOPPLE INCLUDING THE BUTTER PASS WERE INSPECTED BY WAY OF DRY POWDER MPI. ALL FINAL WELD PASSES WERE INSPECTED BY WAY OF COLOUR CONTRAST MPI AS WELL AS SHEAR WAVE ULTRASONICS. A 48 HOUR POST WELD INSPECTION WAS ALSO PERFORMED BY WAY OF SHEAR WAVE UT AND CCMPI TO ENSURE OF NO POST WELD INDICATIONS. AT THE TIME AND DATE OF INITIAL AND POST WELD INSPECTIONS NO RELEVANT INDICATIONS WERE NOTED OR RECORDED. PLEASE SEE PICTURES AND PETROLINES DRAWINGS FOR STOPPLE LOCATION.

SIGNATURE

Brian J. Purves

TECHNICIAN

BRIAN PURVES
CGSB #7685 LEVEL II UT,RT,MT,PT,TOFD
SNT# 200608152 LEVEL II UT,PT,MT,RT

ASSISTANT #1

ROSS LEASK

ASSISTANT #2

SNT# 200608159 LEVEL II MT



5-May-11
48hr Post Weld

2.05

2.96 Plains Rainbow NPS 20" RGW

EVI-Utkuma

← 270°

55330