GARY R. PETERSON
Vice President
McGuire Nuclear Station

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May 12, 2006

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Subject: Duke Power Company LLC d/b/a
Duke Energy Carolinas, LLC (Duke)
McGuire Nuclear Station Unit 2
Docket No. 50-370
Relief Request (RR) 05-MN-003

Pursuant to 10 CFR 50.55a(a)(3), Duke requests approval to use alternatives to Section XI of the ASME Boiler and Pressure Vessel Code. Compliance with the specified requirements of this section would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety. However, the proposed alternatives will provide an acceptable level of quality and safety. Specific details are described in the attached relief request.

Questions on this matter should be directed to Norman T. Simms, McGuire Regulatory Compliance, at (704) 875-4685.

Sincerely,

G.R. Peterson

Attachments

A047

cc w/attachment:

Mr. W.D. Travers
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303

Mr. J.F. Stang Jr., Project Manager (addressee only)
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
One White Flint North, Mail Stop 08-H4A
11555 Rockville Pike
Rockville, MD 20852-2738

Mr. J.B. Brady
Senior NRC Resident Inspector
McGuire Nuclear Station

bxc w/o attachments:

N.T. Simms
R. Branch (MG01WC)
G.J. Underwood (EC05A)
R.K. Rhyne (EC05A)
J.J. Mc Ardle(EC05A)
J.F. Swan (MG01WC)

bxc w/attachments:

K.L. Crane
NRIA File/ELL
Master File # 1.3.2.13

ATTACHMENT

Relief Request 05-MN-003

Proposed Relief in Accordance with 10 CFR 50.55a(g)(5)(iii),
Inservice Inspection Impracticality
Duke Energy Corporation
McGuire Nuclear Station – Unit 2 (EOC-16)
Second 10-Year Interval – Inservice Inspection Plan
Interval Start Date= December 1, 2001 Interval End Date= December 1, 2011
ASME Section XI Code – 1989 Edition with No Addenda
Code Case N-460 is applicable
Examination Dates October 6, 2003-April 14, 2005

	I.	II.	III.	IV. & V.	VI.	VII.	VIII.
Request Number	**Limited Area/Weld I.D. Number**	**System / Component for Which Relief is Requested:** Area or Weld to be Examined	**Code Requirement from Which Relief is Requested:** 100% Exam Volume Coverage Exam Category Item No. Fig. No. Limitation Percentage	**Impracticality/ Burden Caused by Compliance**	**Proposed Alternate Examinations or Testing**	**Implementation Schedule and Duration**	**Justification for Granting Relief**
1.	2RPV-W03	NC System Reactor Vessel Lower Shell to Lower Head Circumferential Weld	Exam Category B-A Item No. B01.011.003 Fig. IWB-2500-1 72.76% Volume Coverage	See Paragraph "A" See Attachment 1 Pages 1-40 Attachment 6 Page 1	See Paragraph "E"	See Paragraph "F"	See Paragraph "G" See Attachment 1 Pages 1-40 Attachment 6 Page 1
2.	2RPV-W01	NC System Reactor Vessel Lower Head to Bottom Head Circumferential Weld	Exam Category B-A Item No. B01.021.002 Fig. IWB-2500-3 87.19% Volume Coverage	See Paragraph "B" See Attachment 2 Pages 1-81 Attachment 6 Page 2	See Paragraph "E"	See Paragraph "F"	See Paragraph "H" See Attachment 2 Pages 1-81 Attachment 6 Page 2
3.	2RPV-W15-SE	NC System Reactor Vessel Outlet Nozzle to Safe End Weld (22 degrees)	Exam Category B-F Item No. B05.010.005 and B05.010.005A Fig. IWB-2500-8 84.38% Volume Coverage	See Paragraph "C" See Attachment 3 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 3 Pages 1-7 Attachment 6 Page 3
4.	2RPV-W17-SE	NC System Reactor Vessel Outlet Nozzle to Safe End Weld (202 degrees)	Exam Category B-F Item No. B05.010.007 and B05.010.007A Fig. IWB-2500-8 80.24% Volume Coverage	See Paragraph "C" See Attachment 4 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 4 Pages 1-7 Attachment 6 Page 3

	I.	II.	III.	IV. & V.	VI.	VII.	VIII.
Request Number	**Limited Area/Weld I.D. Number**	**System / Component for Which Relief is Requested: Area or Weld to be Examined**	**Code Requirement from Which Relief is Requested: 100% Exam Volume Coverage Exam Category Item No. Fig. No. Limitation Percentage**	**Impracticality Burden Caused by Compliance**	**Proposed Alternate Examinations or Testing**	**Implementation Schedule and Duration**	**Justification for Granting Relief**
5.	2RPV-W18-SE	NC System Reactor Vessel Outlet Nozzle to Safe End Weld (338 degrees)	Exam Category B-F Item No. B05.010.008 and B05.010.008A Fig. IWB-2500-8 83.34% Volume Coverage	See Paragraph "C" See Attachment 5 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 5 Pages 1-7 Attachment 6 Page 3
6.	2NC2F-1-1	NC System Reactor Vessel Outlet Nozzle to Safe End (22 degrees) (Pipe Side Scan)	Exam Category B-F Item No. B05.130.001 and B05.130.001A Fig. IWB-2500-8 84.38% Volume Coverage	See Paragraph "D" See Attachment 3 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 3 Pages 1-7 Attachment 6 Page 3
7.	2NC2F-3-1	NC System Reactor Vessel Outlet Nozzle to Safe End (202 degrees) (Pipe Side Scan)	Exam Category B-F Item No. B05.130.009 and B05.130.009A Fig. IWB-2500-8 80.24% Volume Coverage	See Paragraph "D" See Attachment 4 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 4 Pages 1-7 Attachment 6 Page 3
8.	2NC2F-4-1	NC System Reactor Vessel Outlet Nozzle to Safe End (338 degrees) (Pipe Side Scan)	Exam Category B-F Item No. B05.130.013 and B05.130.013A Fig. IWB-2500-8 83.34% Volume Coverage	See Paragraph "D" See Attachment 5 Pages 1-7 Attachment 6 Page 3	See Paragraph "E"	See Paragraph "F"	See Paragraph "I" See Attachment 5 Pages 1-7 Attachment 6 Page 3

IV. & V. Impracticality/Burden caused by Code Compliance

Paragraph A: (The Reactor Vessel Lower Shell to Lower Head Circumferential Weld is carbon steel. The thickness of this weld is 5.300 inches.)

During the ultrasonic examination of this weld, 100% coverage of the required examination volume could not be obtained. Coverage was limited due to the proximity of six Core Support Lugs. Scanning was conducted between and below the obstructing lugs with the scan boundaries maximized by visually assisted positioning of the exam head so that scan starts and stops were as close to the support lugs as tool configuration allowed. Beam angles dual element 45 degree refracted L-wave, single element 45 degree L-waves and single element 45 Shear Wave were used for this examination. This percentage represents the aggregate coverage of all scans performed on the weld and base material. In order to achieve more coverage, the six Core Support Lugs would have to be moved to allow greater access for scanning, this would be impractical. There were no recordable indications found during the inspection of this weld.

Paragraph B: (The Reactor Vessel Lower Head to Bottom Head Circumferential Weld is carbon steel. The thickness of this weld is 5.300 inches.)

During the ultrasonic examination of this weld, 100% coverage of the required examination volume could not be obtained. Coverage was limited due to the Lower Head to Bottom Head Weld being at approximately the same position as the peripheral bottom mounted instrumentation tubes (BMI). Scanning was conducted above and between the obstructing penetrations with scan boundaries maximized by visually assisted positioning of the exam head so that scan starts and stops were as close to the tubes as tool configuration allowed. The amount of coverage reported represents the aggregate coverage from all scans performed on the weld and base material. Beam angles, dual element 45-degree L-wave, single element 45 degree L-wave and single element 45 Shear Wave were used for this examination. This percentage represents the aggregate coverage of all scans for the weld. In order to achieve more coverage, the bottom mounted instrumentation tubes would have to be moved to allow greater access for scanning, this would be impractical. There were no recordable indications found during the inspection of this weld.

Paragraph C: (The Reactor Vessel Outlet Nozzle to Safe End Weld is stainless steel to carbon steel. The diameter of the weld is 29.00 inches with a wall thickness of 2.312 inches.)

During the ultrasonic examination of this weld, 100% coverage of the required examination volume could not be obtained. Coverage was limited due to the ID configuration which consists of counter-bore and weld root protrusion.

Ultrasonic scans were performed from the ID surface using 70 degree L wave transducers applied in four directions. This exam interrogated the inner 1/3 thickness volume. Eddy Current examination was also employed to examine inner surfaces of the dissimilar metal welds and the

adjacent examination volumes where ID geometry presented a limitation to the detection of axial flaws as defined in the PDQS for the qualified Appendix VIII techniques.

Paragraph D: The Reactor Vessel pipe to safe end weld is stainless steel. The diameter of the weld is 29.000 inches with a wall thickness of 2.300 inches.)

During the ultrasonic examination of this weld, 100% coverage of the required examination volume could not be obtained. Coverage was limited due to the ID configuration which consists of counter-bore and weld root protrusion.

Ultrasonic scans were performed from the ID surface using 70 degree L wave transducers applied in four directions. This exam interrogated the inner 1/3 thickness volume. Eddy Current examination was also employed to examine inner surfaces of the similar metal welds and the adjacent examination volumes where ID geometry presented a limitation to the detection of axial flaws as defined in the PDQS for the qualified Appendix VIII techniques.

VI. Proposed Alternate Examinations or Testing

Paragraph E:
None. The scheduled 10-year code examination was performed on the referenced area/welds and it resulted in the noted limited coverage of the required ultrasonic volume. No additional examinations are planned for the area/weld during the current inspection interval.

VII. Implementation Schedule and Duration

Paragraph F:
None. The scheduled 10-year code examination was performed on the referenced area/welds and it resulted in the noted limited coverage of the required ultrasonic volume. No additional examinations are planned for the area/weld during the current inspection interval.

VIII. Justification for Granting Relief

Paragraph G: Ultrasonic examination of this weld was conducted using personnel, equipment and procedures qualified in accordance with ASME Section XI, Appendix VIII, 1995 Edition with the 1996 Addenda as modified by 10 CFR 50.55a(b)(2)(xiv, xv and xvi). Although 100% coverage of the examination volume could not be achieved, the amount of coverage obtained for this examination provides an acceptable level of quality and integrity.

Due to the design of the reactor vessel and location of the Core Guide Lugs it is not feasible to obtain the required examination coverage. This weld is not exposed to significant neutron fluence and is not prone to negative material property changes (i.e., embrittlement) associated with neutron bombardment. If a leak were to occur at the weld in question, there are methods by

which the leak could be identified for prompt Engineering evaluation. The plant is designed to detect the following:

a) Increased containment humidity. This parameter is indicated in the control room and is monitored periodically by Operations and also monitored by the Containment Ventilation System Engineer. Lower containment humidity, Ventilation Unit Condensate Drain Tank (VUCDT) level, are all recorded in Autolog at the start of each shift.

b) Increased temperatures in lower containment, Steam Generator compartment, Pressurizer compartment, or incore sump room. These temperatures are monitored continuously by the OAC alarms, and are periodically monitored by the System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.

c) Increased input into the VUCDT level. This parameter is monitored continuously by Operations via an OAC alarm and also periodically by the Liquid Radwaste System Engineer and Reactor Coolant System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.

d) Increase in unidentified reactor coolant leakage. This parameter would be exhibited during performance of reactor coolant leakage calculation, which is required by Technical Specifications to be performed every 72 hours. The unidentified leakage limit in Technical Specification 3.4.13.1 is 1 gpm.

e) Increased Containment Floor and Equipment Sump levels. These levels are monitored continuously by the OAC alarms for immediate Operations notification, and are periodically monitored by the System Engineer.

f) Change in the Volume Control Tank (VCT) level rate (a more negative rate is set to alarm to Operations at -1.0 gpm). This is closely monitored by the Chemical and Volume Control System Engineer.

Note: Although diverse means are available to identify a leak in containment, containment entry would be required to identify the exact source of the leakage.

In addition, a Mode 3 containment walkdown is performed each refueling outage at shutdown and startup to identify any leaks.

Paragraph H: Ultrasonic examination of this weld was conducted using personnel, equipment and procedures qualified in accordance with ASME Section XI, Appendix VIII, 1995 Edition with the 1996 Addenda as modified by 10 CFR 50.55a(b)(2)(xiv, xv and xvi). Although 100% coverage of the examination volume could not be achieved, the amount of coverage obtained for this examination provides an acceptable level of quality and integrity.

Due to the design of the reactor vessel and location of the bottom mounted instrumentation (BMI) tubes it is not feasible to obtain the required examination coverage. This weld is not exposed to significant neutron fluence and is not prone to negative material property changes (i.e., embrittlement) associated with neutron bombardment. If a leak were to occur at the weld in

question, there are methods by which the leak could be identified for prompt Engineering evaluation. The plant is designed to detect the following:

a. Increased containment humidity. This parameter is indicated in the control room and is monitored periodically by Operations and also monitored by the Containment Ventilation System Engineer. Lower containment humidity, Ventilation Unit Condensate Drain Tank (VUCDT) level are all recorded in Autolog at the start of each shift.
b. Increased temperatures in lower containment, Steam Generator compartment, Pressurizer compartment, or incore sump room. These temperatures are monitored continuously by the OAC alarms, and are periodically monitored by the System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.
c. Increased input into the VUCDT level. This parameter is monitored continuously by Operations via an OAC alarm and also periodically by the Liquid Radwaste System Engineer and Reactor Coolant System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.
d. Increase in unidentified reactor coolant leakage. This parameter would be exhibited during performance of reactor coolant leakage calculation, which is required by Technical Specifications to be performed every 72 hours. The unidentified leakage limit in Technical Specification 3.4.13.1 is 1 gpm.
e. Increased Containment Floor and Equipment Sump levels. These levels are monitored continuously by the OAC alarms for immediate Operations notification, and are periodically monitored by the System Engineer.
f. Change in the Volume Control Tank (VCT) level rate (a more negative rate is set to alarm to Operations at 1.0 gpm). This is closely monitored by the Chemical and Volume Control System Engineer.

Note: Although diverse means are available to identify a leak in containment, containment entry would be required to identify the exact source of the leakage.

In addition, a Mode 3 containment walkdown is performed each refueling outage at shutdown and startup to identify any leaks.

Paragraph I:
Ultrasonic examination of this weld was conducted using personnel, equipment and procedures qualified in accordance with ASME Section XI, Appendix VIII, 1995 Edition with the 1996 Addenda as modified by 10 CFR 50.55a(b)(2)(xiv, xv and xvi). Although 100% coverage of the examination volume could not be achieved, the amount of coverage obtained for this examination provides an acceptable level of quality and integrity.

Due to the ID configuration counter-bore and weld root protrusion, it is not feasible to obtain the required examination coverage. This weld is not exposed to significant neutron fluence and is not prone to negative material property changes (i.e., embrittlement) associated with neutron bombardment. If a leak were to occur at the welds in question, there are methods by which the leak could be identified for prompt Engineering evaluation. The plant is designed to detect the following:

a. Increased containment humidity. This parameter is indicated in the control room and is monitored periodically by Operations and also monitored by the Containment Ventilation System Engineer. Lower containment humidity, Ventilation Unit Condensate Drain Tank (VUCDT) level are all recorded in Autolog at the start of each shift.
b. Increased temperatures in lower containment, Steam Generator compartment, Pressurizer compartment, or incore sump room. These temperatures are monitored continuously by the OAC alarms, and are periodically monitored by the System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.
c. Increased input into the VUCDT level. This parameter is monitored continuously by Operations via an OAC alarm and also periodically by the Liquid Radwaste System Engineer and Reactor Coolant System Engineer. The OAC alarm is set for immediate Operations notification when an alarm set point is exceeded.
d. Increase in unidentified reactor coolant leakage. This parameter would be exhibited during performance of reactor coolant leakage calculation, which is required by Technical Specifications to be performed every 72 hours. The unidentified leakage limit in Technical Specification 3.4.13.1 is 1 gpm.
e. Increased Containment Floor and Equipment Sump levels. These levels are monitored continuously by the OAC alarms for immediate Operations notification, and are periodically monitored by the System Engineer.
f. Change in the Volume Control Tank (VCT) level rate (a more negative rate is set to alarm to Operations at 1.0 gpm). This is closely monitored by the Chemical and Volume Control System Engineer.

Note: Although diverse means are available to identify a leak in containment, containment entry would be required to identify the exact source of the leakage.

In addition, a Mode 3 containment walkdown is performed each refueling outage at shutdown and startup to identify any leaks.

IX. Other Information

Jim McArdle (Principal UT NDE Level III Examiner) provided Sections III., IV., V. and part of Section VIII.

Robert W. Kirk (MNS Systems Engineer) provided part of Section VIII.

Gary Underwood (Sponsor) compiled the remaining sections of this relief request.

Sponsored By: Gary Underwood **Date** 5-10-06

Approved By: L. Kevin Thyne **Date** 5/10/06

Attachment 1, 6	UT Examination Data B01.011.003
Attachment 2, 6	UT Examination Data B01.021.002
Attachment 3, 6	UT Examination Data B05.010.005 and B05.010.005A
Attachment 4, 6	UT Examination Data B05.010.007 and B05.010.007A
Attachment 5, 6	UT Examination Data B05.010.008 and B05.010.008A
Attachment 3, 6	UT, Examination Data B05.130.001 and B05.130.001A
Attachment 4, 6	UT, Examination Data B05.130.009 and B05.130.009A
Attachment 5, 6	UT, Examination Data B05.130.013 and B05.130.013A

REQUEST RELIEF 05-MN-003

ATTACHMENT 1

PAGES 1-40

ATTACHMENT 1

WesDyne International
Reactor Vessel Weld Results Summary

McGUIRE UNIT 2

WELD NO. 2RPV-W03 (B01.011.003)

DESCRIPTION Lower Shell to Lower Head Circ

LIMITATIONS NO [ ] YES [X] COVERAGE = 72.76%

RESULTS NI [X] RI [ ]

NO. OF INDICATIONS 0

STATUS N/A

EXAM DOCUMENTATION	INDICATION DOCUMENTATION
[X] ANALYSIS LOG	[ ] ASSESSMENT SHEET
[X] ACQUISITION LOG	[ ] PARAGON HARD COPY
[X] SCAN PRINTOUT	[ ] OTHER (specify)
[X] COVERAGE BREAKDOWN	

WESDYNE ANALYST

McGuire Unit 2

RPV COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS CCW/CW

PERP. SCANS UP/DN

WELD DESCRIPTION LOWER SHELL TO LOWER HEAD CIRC WELD

WELD NO. 2RPV-W03

BEAM ANGLES

BEAM DIRECTION	45° L Dual		45° L Single		45° Shear					
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	63.67	22.0	100	80.02	100	80.02				
CW	63.67	22.0	100	80.02	100	80.02				
UP	63.67	63.67	63.67	63.67	81.83	100				
DOWN	63.67	63.67	63.67	63.67	63.67	100				
Combined Average = 72.76%	Limitation due to Core Support Lugs.									

ANALYST

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-1		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-47-72	1	45L / CCW	X			CHL 3/18/05
W4-PAR-47-72	2	45L / CW	X			CHL 3/18/05
W4-PAR-47-72	3	45L / CCW	X			CHL 3/18/05
W4-PAR-47-72	4	45L / CW	X			CHL 3/18/05
W4-PAR-47-72	5	45S / CCW	X			CHL 3/18/05
W4-PAR-47-72	6	45S / CW	X			CHL 3/18/05
W4-PAR-47-72	7	45S / CW	X			CHL 3/18/05
W4-PAR-47-72	8	45L / CCW	X			CHL 3/18/05
W4-PAR-72-107	1	45L / CCW	X			CHL 3/18/05
W4-PAR-72-107	2	45L / CW	X			CHL 3/18/05
W4-PAR-72-107	3	45L / CCW	X			CHL 3/18/05
W4-PAR-72-107	4	45L / CW	X			CHL 3/18/05
W4-PAR-72-107	5	45S / CCW	X			CHL 3/18/05
W4-PAR-72-107	6	45S / CW	X			CHL 3/18/05
W4-PAR-72-107	7	45L / CW	X			CHL 3/18/05
W4-PAR-72-107	8	45L / CCW	X			CHL 3/18/05

EXAMINER Chang Hun Lee LEVEL III DATE 03-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-2		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-12-47	1	45LD / CCW	X			LMM 3/18/05
W4-PAR-12-47	2	45LD / CW	X			LMM 3/18/05
W4-PAR-12-47	3	45LS / CCW	X			LMM 3/18/05
W4-PAR-12-47	4	45LS / CW	X			LMM 3/18/05
W4-PAR-12-47	5	45S / CCW	X			LMM 3/18/05
W4-PAR-12-47	6	45S / CW	X			LMM 3/18/05
W4-PAR-12-47	7	45S / CW	X			LMM 3/18/05
W4-PAR-12-47	8	45LD / CCW	X			LMM 3/18/05
W4-PAR-132-167	1	45LD / CCW	X			LMM 3/18/05
W4-PAR-132-167	2	45LD / CW	X			LMM 3/18/05
W4-PAR-132-167	3	45LS / CCW	X			LMM 3/18/05
W4-PAR-132-167	4	45LS / CW	X			LMM 3/18/05
W4-PAR-132-167	5	45S / CCW	X			LMM 3/18/05
W4-PAR-132-167	6	45S / CW	X			LMM 3/18/05
W4-PAR-132-167	7	45L / CW	X			LMM 3/18/05
W4-PAR-132-167	8	45LD / CCW	X			LMM 3/18/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-3		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-167-192	1	45LD / CCW	X			LMM 3/18/05
W4-PAR-167-192	2	45LD / CW	X			LMM 3/18/05
W4-PAR-167-192	3	45LS / CCW	X			LMM 3/18/05
W4-PAR-167-192	4	45LS / CW	X			LMM 3/18/05
W4-PAR-167-192	5	45S / CCW	X			LMM 3/18/05
W4-PAR-167-192	6	45S / CW	X			LMM 3/18/05
W4-PAR-167-192	7	45S / CW	X			LMM 3/18/05
W4-PAR-167-192	8	45LD / CCW	X			LMM 3/18/05
W4-PAR-347-12	1	45LD / CCW	X			LMM 3/18/05
W4-PAR-347-12	2	45LD / CW	X			LMM 3/18/05
W4-PAR-347-12	3	45LS / CCW	X			LMM 3/18/05
W4-PAR-347-12	4	45LS / CW	X			LMM 3/18/05
W4-PAR-347-12	5	45S / CCW	X			LMM 3/18/05
W4-PAR-347-12	6	45S / CW	X			LMM 3/18/05
W4-PAR-347-12	7	45L / CW	X			LMM 3/18/05
W4-PAR-347-12	8	45LD / CCW	X			LMM 3/18/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #
PROCEDURE: PDI-ISI-254	REVISION: 7	
WELD # 2RPV-W03	WELD TYPE: LOWER SHELL TO LOWER HEAD CIRC	
Calibration Data Sheet No. LS1 - LS8	Acquisition Log Sheet No. W4-1	
Analysis Log Sheet No. W4-4		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-107-132	1	45L / CCW	X			CHL 3/18/05
W4-PAR-107-132	2	45L / CW	X			CHL 3/18/05
W4-PAR-107-132	3	45L / CCW	X			CHL 3/18/05
W4-PAR-107-132	4	45L / CW	X			CHL 3/18/05
W4-PAR-107-132	5	45S / CCW	X			CHL 3/18/05
W4-PAR-107-132	6	45S / CW	X			CHL 3/18/05
W4-PAR-107-132	7	45S / CW	X			CHL 3/18/05
W4-PAR-107-132	8	45L / CCW	X			CHL 3/18/05
W4-PAR-227-252	1	45L / CCW	X			CHL 3/18/05
W4-PAR-227-252	2	45L / CW	X			CHL 3/18/05
W4-PAR-227-252	3	45L / CCW	X			CHL 3/18/05
W4-PAR-227-252	4	45L / CW	X			CHL 3/18/05
W4-PAR-227-252	5	45S / CCW	X			CHL 3/18/05
W4-PAR-227-252	6	45S / CW	X			CHL 3/18/05
W4-PAR-227-252	7	45S / CW	X			CHL 3/18/05
W4-PAR-227-252	8	45L / CCW	X			CHL 3/18/05

EXAMINER Chang Hun Lee LEVEL III DATE 03-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-5		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-197-227	1	45L / CCW	X			CHL 3/18/05
W4-PAR-197-227	2	45L / CW	X			CHL 3/18/05
W4-PAR-197-227	3	45L / CCW	X			CHL 3/18/05
W4-PAR-197-227	4	45L / CW	X			CHL 3/18/05
W4-PAR-197-227	5	45S / CCW	X			CHL 3/18/05
W4-PAR-197-227	6	45S / CW	X			CHL 3/18/05
W4-PAR-197-227	7	45S / CW	X			CHL 3/18/05
W4-PAR-197-227	8	45L / CCW	X			CHL 3/18/05
W4-PAR-252-287	1	45L / CCW	X			CHL 3/18/05
W4-PAR-252-287	2	45L / CW	X			CHL 3/18/05
W4-PAR-252-287	3	45L / CCW	X			CHL 3/18/05
W4-PAR-252-287	4	45L / CW	X			CHL 3/18/05
W4-PAR-252-287	5	45S / CCW	X			CHL 3/18/05
W4-PAR-252-287	6	45S / CW	X			CHL 3/18/05
W4-PAR-252-287	7	45S / CW	X			CHL 3/18/05
W4-PAR-252-287	8	45L / CCW	X			CHL 3/18/05

EXAMINER Chang Hun Lee LEVEL II DATE 03-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-6		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-250-289	1	45LD / DN	X			LMM 3/18/05
W4-PRP-250-289	2	45LD / UP	X			LMM 3/18/05
W4-PRP-250-289	3	45LS / DN	X			LMM 3/18/05
W4-PRP-250-289	4	45LS / UP	X			LMM 3/18/05
W4-PRP-250-289	5	45S / DN	X			LMM 3/18/05
W4-PRP-250-289	6	45S / UP	X			LMM 3/18/05
W4-PRP-250-289	7	45S / UP	X			LMM 3/18/05
W4-PRP-250-289	8	45LD / DN	X			LMM 3/18/05
W4-PRP-289-310	1	45LD / DN	X			LMM 3/18/05
W4-PRP-289-310	2	45LD / UP	X			LMM 3/18/05
W4-PRP-289-310	3	45LS / DN	X			LMM 3/18/05
W4-PRP-289-310	4	45LS / UP	X			LMM 3/18/05
W4-PRP-289-310	5	45S / DN	X			LMM 3/18/05
W4-PRP-289-310	6	45S / UP	X			LMM 3/18/05
W4-PRP-289-310	7	45S / UP	X			LMM 3/18/05
W4-PRP-289-310	8	45LD / DN	X			LMM 3/18/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-7		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PAR-287-312	1	45L / CCW	X			CHL 3/18/05
W4-PAR-287-312	2	45L / CW	X			CHL 3/18/05
W4-PAR-287-312	3	45L / CCW	X			CHL 3/18/05
W4-PAR-287-312	4	45L / CW	X			CHL 3/18/05
W4-PAR-287-312	5	45S / CCW	X			CHL 3/18/05
W4-PAR-287-312	6	45S / CW	X			CHL 3/18/05
W4-PAR-287-312	7	45S / CW	X			CHL 3/18/05
W4-PAR-287-312	8	45L / CCW	X			CHL 3/18/05
W4-PAR-312-347	1	45L / CCW	X			CHL 3/18/05
W4-PAR-312-347	2	45L / CW	X			CHL 3/18/05
W4-PAR-312-347	3	45L / CCW	X			CHL 3/18/05
W4-PAR-312-347	4	45L / CW	X			CHL 3/18/05
W4-PAR-312-347	5	45S / CCW	X			CHL 3/18/05
W4-PAR-312-347	6	45S / CW	X			CHL 3/18/05
W4-PAR-312-347	7	45S / CW	X			CHL 3/18/05
W4-PAR-312-347	8	45L / CCW	X			CHL 3/18/05

EXAMINER Chang Hun Lee LEVEL III DATE 03-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-8		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-190-229	1	45L / DN	X			CHL 3/18/05
W4-PRP-190-229	2	45L / UP	X			CHL 3/18/05
W4-PRP-190-229	3	45L / DN	X			CHL 3/18/05
W4-PRP-190-229	4	45L / UP	X			CHL 3/18/05
W4-PRP-190-229	5	45S / DN	X			CHL 3/18/05
W4-PRP-190-229	6	45S / UP	X			CHL 3/18/05
W4-PRP-190-229	7	45S / UP	X			CHL 3/18/05
W4-PRP-190-229	8	45L / DN	X			CHL 3/18/05
W4-PRP-229-250	1	45L / DN	X			CHL 3/18/05
W4-PRP-229-250	2	45L / UP	X			CHL 3/18/05
W4-PRP-229-250	3	45L / DN	X			CHL 3/18/05
W4-PRP-229-250	4	45L / UP	X			CHL 3/18/05
W4-PRP-229-250	5	45S / DN	X			CHL 3/18/05
W4-PRP-229-250	6	45S / UP	X			CHL 3/18/05
W4-PRP-229-250	7	45S / UP	X			CHL 3/18/05
W4-PRP-229-250	8	45L / DN	X			CHL 3/18/05

EXAMINER Chang Hun Lee LEVEL II DATE 03-18-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-9		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-310-349	1	45LD / DN	X			LMM 3/19/05
W4-PRP-310-349	2	45LD / UP	X			LMM 3/19/05
W4-PRP-310-349	3	45LS / DN	X			LMM 3/19/05
W4-PRP-310-349	4	45LS / UP	X			LMM 3/19/05
W4-PRP-310-349	5	45S / DN	X			LMM 3/19/05
W4-PRP-310-349	6	45S / UP	X			LMM 3/19/05
W4-PRP-310-349	7	45S / UP	X			LMM 3/19/05
W4-PRP-310-349	8	45LD / DN	X			LMM 3/19/05
W4-PRP-49-70	1	45LD / DN	X			LMM 3/19/05
W4-PRP-49-70	2	45LD / UP	X			LMM 3/19/05
W4-PRP-49-70	3	45LS / DN	X			LMM 3/19/05
W4-PRP-49-70	4	45LS / UP	X			LMM 3/19/05
W4-PRP-49-70	5	45S / DN	X			LMM 3/19/05
W4-PRP-49-70	6	45S / UP	X			LMM 3/19/05
W4-PRP-49-70	7	45S / UP	X			LMM 3/19/05
W4-PRP-49-70	8	45LD / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-HSI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-10		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-349-10	1	45L / DN	X			CHL 3/19/05
W4-PRP-349-10	2	45L / UP	X			CHL 3/19/05
W4-PRP-349-10	3	45L / DN	X			CHL 3/19/05
W4-PRP-349-10	4	45L / UP	X			CHL 3/19/05
W4-PRP-349-10	5	45S / DN	X			CHL 3/19/05
W4-PRP-349-10	6	45S / UP	X			CHL 3/19/05
W4-PRP-349-10	7	45S / UP	X			CHL 3/19/05
W4-PRP-349-10	8	45L / DN	X			CHL 3/19/05
W4-PRP-10-49	1	45L / DN	X			CHL 3/19/05
W4-PRP-10-49	2	45L / UP	X			CHL 3/19/05
W4-PRP-10-49	3	45L / DN	X			CHL 3/19/05
W4-PRP-10-49	4	45L / UP	X			CHL 3/19/05
W4-PRP-10-49	5	45S / DN	X			CHL 3/19/05
W4-PRP-10-49	6	45S / UP	X			CHL 3/19/05
W4-PRP-10-49	7	45S / UP	X			CHL 3/19/05
W4-PRP-10-49	8	45L / DN	X			CHL 3/19/05

EXAMINER Chang Hun Lee LEVEL II DATE 03-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-11		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-70-109	1	45LD / DN	X			LMM 3/19/05
W4-PRP-70-109	2	45LD / UP	X			LMM 3/19/05
W4-PRP-70-109	3	45LS / DN	X			LMM 3/19/05
W4-PRP-70-109	4	45LS / UP	X			LMM 3/19/05
W4-PRP-70-109	5	45S / DN	X			LMM 3/19/05
W4-PRP-70-109	6	45S / UP	X			LMM 3/19/05
W4-PRP-70-109	7	45S / UP	X			LMM 3/19/05
W4-PRP-70-109	8	45LD / DN	X			LMM 3/19/05
W4-PRP-109-130	1	45LD / DN	X			LMM 3/19/05
W4-PRP-109-130	2	45LD / UP	X			LMM 3/19/05
W4-PRP-109-130	3	45LS / DN	X			LMM 3/19/05
W4-PRP-109-130	4	45LS / UP	X			LMM 3/19/05
W4-PRP-109-130	5	45S / DN	X			LMM 3/19/05
W4-PRP-109-130	6	45S / UP	X			LMM 3/19/05
W4-PRP-109-130	7	45S / UP	X			LMM 3/19/05
W4-PRP-109-130	8	45LD / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W03	WELD TYPE:	LOWER SHELL TO LOWER HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W4-1
Analysis Log Sheet No.	W4-12		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W4-PRP-130-169	1	45LD / DN	X			LMM 3/19/05
W4-PRP-130-169	2	45LD / UP	X			LMM 3/19/05
W4-PRP-130-169	3	45LS / DN	X			LMM 3/19/05
W4-PRP-130-169	4	45LS / UP	X			LMM 3/19/05
W4-PRP-130-169	5	45S / DN	X			LMM 3/19/05
W4-PRP-130-169	6	45S / UP	X			LMM 3/19/05
W4-PRP-130-169	7	45S / UP	X			LMM 3/19/05
W4-PRP-130-169	8	45LD / DN	X			LMM 3/19/05
W4-PRP-169-190	1	45LD / DN	X			LMM 3/19/05
W4-PRP-169-190	2	45LD / UP	X			LMM 3/19/05
W4-PRP-169-190	3	45LS / DN	X			LMM 3/19/05
W4-PRP-169-190	4	45LS / UP	X			LMM 3/19/05
W4-PRP-169-190	5	45S / DN	X			LMM 3/19/05
W4-PRP-169-190	6	45S / UP	X			LMM 3/19/05
W4-PRP-169-190	7	45S / UP	X			LMM 3/19/05
W4-PRP-169-190	8	45LD / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG

PLANT / UNIT	INTERVAL:	PERIOD:	OUTAGE:
McGUIRE / 2	2	3	2EOC16

PROCEDURE:	REVISION:
PDI-ISI-254	7

Calibration Data Sheet No. LS1 - LS8 Acquisition Log Sheet No. W4-1 - W4-12

DATAFILE NAME	WELD #	INDEX START	SCAN START	OPERATOR	LEVEL	DATE	COMMENTS
W4-PAR-12-47	2RPV-W03	332.70	12.46	KRS	I T	3/18/05	
W4-PAR-47-72	2RPV-W03	342.34	47.54	KRS	I T	3/18/05	
W4-PAR-72-107	2RPV-W03	332.70	72.46	KRS	I T	3/18/05	
W4-PAR-107-132	2RPV-W03	342.34	107.54	KRS	I T	3/18/05	
W4-PAR-132-167	2RPV-W03	332.70	132.46	KRS	I T	3/18/05	
W4-PAR-167-192	2RPV-W03	342.34	167.54	KRS	I T	3/18/05	
W4-PAR-347-12	2RPV-W03	342.34	347.54	KRS	I T	3/18/05	
W4-PAR-192-227	2RPV-W03	332.70	192.46	KRS	I T	3/18/05	
W4-PAR-227-252	2RPV-W03	342.34	227.54	KRS	I T	3/18/05	
W4-PAR-252-287	2RPV-W03	332.70	252.46	KRS	I T	3/18/05	
W4-PAR-287-312	2RPV-W03	342.34	287.54	KRS	I T	3/18/05	
W4-PAR-312-347	2RPV-W03	332.70	312.46	KRS	I T	3/18/05	
W4-PRP-190-229	2RPV-W03	190.80	329.20	KRS	I T	3/18/05	
W4-PRP-229-250	2RPV-W03	229.00	345.65	KRS	I T	3/18/05	
W4-PRP-250-289	2RPV-W03	250.80	329.20	KRS	I T	3/18/05	
W4-PRP-289-310	2RPV-W03	289.00	345.65	KRS	I T	3/18/05	
W4-PRP-310-349	2RPV-W03	310.80	329.20	KRS	I T	3/18/05	
W4-PRP-349-10	2RPV-W03	349.00	345.65	KRS	I T	3/18/05	
W4-PRP-10-49	2RPV-W03	10.80	329.20	KRS	I T	3/18/05	
W4-PRP-49-70	2RPV-W03	49.00	345.65	KRS	I T	3/18/05	
W4-PRP-70-109	2RPV-W03	70.80	329.20	KRS	I T	3/19/05	
W4-PRP-109-130	2RPV-W03	109.00	345.65	KRS	I T	3/19/05	

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG

PLANT / UNIT	INTERVAL:	PERIOD:	OUTAGE:
McGUIRE / 2	2	3	2EOC16

PROCEDURE:	REVISION:
PDI-ISI-254	7

Calibration Data Sheet No. LS1 - LS8 Acquisition Log Sheet No. W4-1- W4-12

DATAFILE NAME	WELD #	INDEX START	SCAN START	OPERATOR	LEVEL	DATE	COMMENTS
W4-PRP-130-169	2RPV-W03	130.80	329.20	KRS	I T	3/19/05	
W4-PRP-169-190	2RPV-W03	169.00	345.65	KRS	I T	3/19/05	

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-12-47

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	12.46
TOP RIGHT	:	332.70	47.54
BOTTOM LEFT	:	348.34	12.46
BOTTOM RIGHT	:	348.34	47.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	20:41:00.448	03/18/05
Scan Completed	20:47:24.331	03/18/05

Robot Operator Signature Michael J. Graham, Jr. DATE 3-18-05

PARAGON Operator Signature Karen Bain DATE 3/18/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-47-72

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	47.54
TOP RIGHT	:	79.00	72.46
BOTTOM LEFT	:	75.00	47.54
BOTTOM RIGHT	:	75.00	72.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	21:03:39.645	03/18/05
Scan Completed	21:05:38.743	03/18/05

Robot Operator Signature *Michael J Grubb Jr* DATE 3-18-05

PARAGON Operator Signature *[signature]* DATE 3/18/05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-72-107

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	72.46
TOP RIGHT	:	332.70	107.54
BOTTOM LEFT	:	348.34	72.46
BOTTOM RIGHT	:	348.34	107.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	21:10:20.881	03/18/05
Scan Completed	21:16:45.225	03/18/05

Robot Operator Signature Michael J. Gruber, II DATE 3-18-05

PARAGON Operator Signature Karen Klein DATE 3/18/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-107-132

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	107.54
TOP RIGHT	:	79.00	132.46
BOTTOM LEFT	:	75.00	107.54
BOTTOM RIGHT	:	75.00	132.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	21:22:31.663	03/18/05
Scan Completed	21:24:30.527	03/18/05

Robot Operator Signature *Michael J. Grubz Jr* DATE *3-18-05*

PARAGON Operator Signature *K Klein* DATE *3-18-05*

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-132-167

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	132.46
TOP RIGHT	:	332.70	167.54
BOTTOM LEFT	:	348.34	132.46
BOTTOM RIGHT	:	348.34	167.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	21:27:37.742	03/18/05
Scan Completed	21:34:02.110	03/18/05

Robot Operator Signature [signature] DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-167-192

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	167.54
TOP RIGHT	:	79.00	192.46
BOTTOM LEFT	:	75.00	167.54
BOTTOM RIGHT	:	75.00	192.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	21:36:42.233	03/18/05
Scan Completed	21:38:40.590	03/18/05

Robot Operator Signature Michael J. Graham Jr DATE 3-18-05

PARAGON Operator Signature K L Lamm DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-347-12

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	347.54
TOP RIGHT	:	79.00	372.46
BOTTOM LEFT	:	75.00	347.54
BOTTOM RIGHT	:	75.00	372.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	21:44:53.176	03/18/05
Scan Completed	21:46:51.674	03/18/05

Robot Operator Signature *Michael J. Gruber, Jr.* DATE *3-18-05*

PARAGON Operator Signature *[signature]* DATE *3-18-05*

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-192-227

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	192.46
TOP RIGHT	:	332.70	227.54
BOTTOM LEFT	:	348.34	192.46
BOTTOM RIGHT	:	348.34	227.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	21:53:11.236	03/18/05
Scan Completed	21:59:35.472	03/18/05

Robot Operator Signature Michael J. Burba, Jr. DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-227-252

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	227.54
TOP RIGHT	:	79.00	252.46
BOTTOM LEFT	:	75.00	227.54
BOTTOM RIGHT	:	75.00	252.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	22:02:05.212	03/18/05
Scan Completed	22:04:04.351	03/18/05

Robot Operator Signature [signature] DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-252-287

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	252.46
TOP RIGHT	:	332.70	287.54
BOTTOM LEFT	:	348.34	252.46
BOTTOM RIGHT	:	348.34	287.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	22:07:06.199	03/18/05
Scan Completed	22:13:30.918	03/18/05

Robot Operator Signature Michael J. [signature], Jr DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-287-312

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	79.00	287.54
TOP RIGHT	:	79.00	312.46
BOTTOM LEFT	:	75.00	287.54
BOTTOM RIGHT	:	75.00	312.46

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	22:15:59.624	03/18/05
Scan Completed	22:17:58.690	03/18/05

Robot Operator Signature Michael J. Graham Jr DATE 3-18-05

PARAGON Operator Signature _____ DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W4-PAR-312-347

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		ELEVATION (IN)	AZIMUTH (DEGREES)
TOP LEFT	:	332.70	312.46
TOP RIGHT	:	332.70	347.54
BOTTOM LEFT	:	348.34	312.46
BOTTOM RIGHT	:	348.34	347.54

Index Size (in) = 0.50
Number of Indexes Specified = 33
Number of Indexes Completed = 33

	Time	Date
Scan Started	22:21:26.945	03/18/05
Scan Completed	22:27:55.765	03/18/05

Robot Operator Signature Michael J. Graham, Jr. DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments ______________________________
____
____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-190-229

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	190.80	329.20
TOP RIGHT	:	229.00	329.20
BOTTOM LEFT	:	190.80	347.59
BOTTOM RIGHT	:	229.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	22:37:46.473	03/18/05
Scan Completed	22:48:54.355	03/18/05

Robot Operator Signature Michael J. Grubaugh DATE 3-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-229-250

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	229.00	76.80
TOP RIGHT	:	250.80	76.80
BOTTOM LEFT	:	229.00	75.50
BOTTOM RIGHT	:	250.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	22:52:51.111	03/18/05
Scan Completed	22:55:59.791	03/18/05

Robot Operator Signature Michael J Bailey, II DATE 3-18-05

PARAGON Operator Signature Karen R Swan DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-250-289

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	250.80	329.20
TOP RIGHT	:	289.00	329.20
BOTTOM LEFT	:	250.80	347.59
BOTTOM RIGHT	:	289.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	22:58:36.606	03/18/05
Scan Completed	23:09:28.188	03/18/05

Robot Operator Signature *Michael J. [signature] Jr* DATE 3-18-05

PARAGON Operator Signature *[signature]* DATE 3-18-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-289-310

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	289.00	76.80
TOP RIGHT	:	310.80	76.80
BOTTOM LEFT	:	289.00	75.50
BOTTOM RIGHT	:	310.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	23:12:54.527	03/18/05
Scan Completed	23:15:48.266	03/18/05

Robot Operator Signature Michael J. Bahn Jr. DATE 3-18-05

PARAGON Operator Signature Karen L. Swan DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-310-349

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	310.80	329.20
TOP RIGHT	:	349.00	329.20
BOTTOM LEFT	:	310.80	347.59
BOTTOM RIGHT	:	349.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	23:19:06.147	03/18/05
Scan Completed	23:30:59.879	03/18/05

Robot Operator Signature Michael J Graham Jr DATE 3-18-05

PARAGON Operator Signature Kenton Lemon DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-349-10

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	349.00	76.80
TOP RIGHT	:	370.80	76.80
BOTTOM LEFT	:	349.00	75.50
BOTTOM RIGHT	:	370.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	23:33:41.326	03/18/05
Scan Completed	23:36:39.740	03/18/05

Robot Operator Signature Michael J. Brabin, Jr. DATE 3-18-05

PARAGON Operator Signature Karla Klemm DATE 3/18/05

Comments ______________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-10-49

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	10.80	329.20
TOP RIGHT	:	49.00	329.20
BOTTOM LEFT	:	10.80	347.59
BOTTOM RIGHT	:	49.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	23:38:28.330	03/18/05
Scan Completed	23:49:57.855	03/18/05

Robot Operator Signature Michael J Graham Jr DATE 3-18-05

PARAGON Operator Signature Karla Brown DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-49-70

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	49.00	76.80
TOP RIGHT	:	70.80	76.80
BOTTOM LEFT	:	49.00	75.50
BOTTOM RIGHT	:	70.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	23:52:13.255	03/18/05
Scan Completed	23:55:12.276	03/18/05

Robot Operator Signature Michael J Bailey, Jr DATE 3-18-05

PARAGON Operator Signature Karlon L Green DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-70-109

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	70.80	329.20
TOP RIGHT	:	109.00	329.20
BOTTOM LEFT	:	70.80	347.59
BOTTOM RIGHT	:	109.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	23:58:02.673	03/18/05
Scan Completed	00:08:53.173	03/19/05

Robot Operator Signature Michael J Grubbs Jr DATE 3-19-05

PARAGON Operator Signature Karlon Blume DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-109-130

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION	AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT :	109.00	76.80
TOP RIGHT :	130.80	76.80
BOTTOM LEFT :	109.00	75.50
BOTTOM RIGHT :	130.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	00:11:26.413	03/19/05
Scan Completed	00:14:26.210	03/19/05

Robot Operator Signature [signature] DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD-VESSEL CIRCUMFERENTIAL PERPENDICUAR SCA

Scan Data File Name = W4-PRP-130-169

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	ELEVATION (IN)
TOP LEFT	:	130.80	329.20
TOP RIGHT	:	169.00	329.20
BOTTOM LEFT	:	130.80	347.59
BOTTOM RIGHT	:	169.00	347.59

Index Size (in) = 0.50
Number of Indexes Specified = 117
Number of Indexes Completed = 117

	Time	Date
Scan Started	00:16:32.700	03/19/05
Scan Completed	00:27:23.199	03/19/05

Robot Operator Signature Michael J Bruton II DATE 3-19-05

PARAGON Operator Signature Karen L Simon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....,.....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W03

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W4-PRP-169-190

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	169.00	76.80
TOP RIGHT	:	190.80	76.80
BOTTOM LEFT	:	169.00	75.50
BOTTOM RIGHT	:	190.80	75.50

Index Size (in) = 0.50
Number of Indexes Specified = 69
Number of Indexes Completed = 69

	Time	Date
Scan Started	00:29:27.875	03/19/05
Scan Completed	00:32:26.587	03/19/05

Robot Operator Signature Michael J Barbra, JR DATE 3-19-05

PARAGON Operator Signature Kenneth Jensen DATE 3-19-05

Comments _____

REQUEST RELIEF 05-MN-003

ATTACHMENT 2

PAGES 1-81

ATTACHMENT 2

WesDyne International
Reactor Vessel Weld Results Summary

McGUIRE UNIT 2

WELD NO.	2RPV-W01 (B01.021.002)	DESCRIPTION	Lower Head to Bottom Head Circ

LIMITATIONS NO [ ] YES [X] COVERAGE = 87.19%

Limitation due to proximity of Peripheral BMI Tubes.

RESULTS NI [ ] RI [X]

NO. OF INDICATIONS 9

STATUS CODE ALLOWABLE

EXAM DOCUMENTATION	INDICATION DOCUMENTATION
[X] ANALYSIS LOG	[X] ASSESSMENT SHEET
[X] ACQUISITION LOG	[X] PARAGON HARD COPY
[X] SCAN PRINTOUT	[ ] OTHER (specify)
[X] COVERAGE BREAKDOWN	

WESDYNE ANALYST

McGuire Unit 2

RPV COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS CCW/CW

PERP. SCANS UP/DN

WELD DESCRIPTION LOWER SHELL TO BOTTOM HEAD CIRC WELD

WELD NO. 2RPV-W01

BEAM ANGLES

BEAM DIRECTION	45° L Dual		45° L Single		45° Shear					
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	86.6	87.5	100	93	100	93				
CW	86.6	87.5	100	93	100	93				
UP	85.97	81.65	81.29	78.43	78.77	79.07				
DOWN	85.97	77.93	81.29	80.95	78.77	82.37				
Combined Average = 87.19%	Limitation due to proximity of peripheral BMI Tubes.									

ANALYST S. J. Sabo

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-1		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-168-175	1	45L / DN	X			LMM 3/19/05
W5-PRP-168-175	2	45L / UP	X			LMM 3/19/05
W5-PRP-168-175	3	45L / DN	X			LMM 3/19/05
W5-PRP-168-175	4	45L / UP	X			LMM 3/19/05
W5-PRP-168-175	5	45S / DN	X			LMM 3/19/05
W5-PRP-168-175	6	45S / UP	X			LMM 3/19/05
W5-PRP-168-175	7	45S / UP	X			LMM 3/19/05
W5-PRP-168-175	8	45L / DN	X			LMM 3/19/05
W5-PRP-145-168	1	45L / DN	X			LMM 3/19/05
W5-PRP-145-168	2	45L / UP	X			LMM 3/19/05
W5-PRP-145-168	3	45L / DN	X			LMM 3/19/05
W5-PRP-145-168	4	45L / UP	X			LMM 3/19/05
W5-PRP-145-168	5	45S / DN	X			LMM 3/19/05
W5-PRP-145-168	6	45S / UP	X			LMM 3/19/05
W5-PRP-145-168	7	45S / UP	X			LMM 3/19/05
W5-PRP-145-168	8	45L / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrove LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-2		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-135-145	1	45L / DN	X		MISNAMED - W5-PRP-35-145 is actual name.	LMM 3/19/05
W5-PRP-135-145	2	45L / UP	X			LMM 3/19/05
W5-PRP-135-145	3	45L / DN	X			LMM 3/19/05
W5-PRP-135-145	4	45L / UP	X			LMM 3/19/05
W5-PRP-135-145	5	45S / DN	X			LMM 3/19/05
W5-PRP-135-145	6	45S / UP	X			LMM 3/19/05
W5-PRP-135-145	7	45S / UP	X			LMM 3/19/05
W5-PRP-135-145	8	45L / DN	X			LMM 3/19/05
W5-PRP-127-135	1	45L / DN	X			LMM 3/19/05
W5-PRP-127-135	2	45L / UP	X			LMM 3/19/05
W5-PRP-127-135	3	45L / DN	X			LMM 3/19/05
W5-PRP-127-135	4	45L / UP	X			LMM 3/19/05
W5-PRP-127-135	5	45S / DN	X			LMM 3/19/05
W5-PRP-127-135	6	45S / UP	X			LMM 3/19/05
W5-PRP-127-135	7	45S / UP	X			LMM 3/19/05
W5-PRP-127-135	8	45L / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-3		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-236-287	1	45L / CW	X			LMM 3/19/05
W5-PAR-236-287	2	45L / CCW	X			LMM 3/19/05
W5-PAR-236-287	3	45L / CW	X			LMM 3/19/05
W5-PAR-236-287	4	45L / CCW	X			LMM 3/19/05
W5-PAR-236-287	5	45S / CW	X			LMM 3/19/05
W5-PAR-236-287	6	45S / CCW	X			LMM 3/19/05
W5-PAR-236-287	7	45S /CCW	X			LMM 3/19/05
W5-PAR-236-287	8	45L / CW	X			LMM 3/19/05
W5-PRP-120-127	1	45L / DN	X			LMM 3/19/05
W5-PRP-120-127	2	45L / UP	X			LMM 3/19/05
W5-PRP-120-127	3	45L / DN	X			LMM 3/19/05
W5-PRP-120-127	4	45L / UP	X			LMM 3/19/05
W5-PRP-120-127	5	45S / DN	X			LMM 3/19/05
W5-PRP-120-127	6	45S / UP	X			LMM 3/19/05
W5-PRP-120-127	7	45S / UP	X			LMM 3/19/05
W5-PRP-120-127	8	45L / DN	X			LMM 3/19/05

EXAMINER Harry M. Musgrave LEVEL II DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-4		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-109-120	1	45L / DN		X	Indication # 1	FGD 3/19/05
W5-PRP-109-120	2	45L / UP		X	Indication # 1 Code Allowable	FGD 3/19/05
W5-PRP-109-120	3	45L / DN	X			FGD 3/19/05
W5-PRP-109-120	4	45L / UP	X			FGD 3/19/05
W5-PRP-109-120	5	45S / DN	X			FGD 3/19/05
W5-PRP-109-120	6	45S / UP	X			FGD 3/19/05
W5-PRP-109-120	7	45S / UP	X			FGD 3/19/05
W5-PRP-109-120	8	45L / DN	—	—		FGD 3/19/05

EXAMINER F Goalwin LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-5		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-62-71	1	45L / DN	X			FGD 3/19/05
W5-PRP-62-71	2	45L / UP	X			FGD 3/19/05
W5-PRP-62-71	3	45L / DN	X			FGD 3/19/05
W5-PRP-62-71	4	45L / UP	X			FGD 3/19/05
W5-PRP-62-71	5	45S / DN	X			FGD 3/19/05
W5-PRP-62-71	6	45S / UP	X			FGD 3/19/05
W5-PRP-62-71	7	45S / UP	X			FGD 3/19/05
W5-PRP-62-71	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-44-62	1	45L / DN	X			FGD 3/19/05
W5-PRP-44-62	2	45L / UP	X			FGD 3/19/05
W5-PRP-44-62	3	45L / DN	X			FGD 3/19/05
W5-PRP-44-62	4	45L / UP	X			FGD 3/19/05
W5-PRP-44-62	5	45S / DN	X			FGD 3/19/05
W5-PRP-44-62	6	45S / UP	X			FGD 3/19/05
W5-PRP-44-62	7	45S / UP	X			FGD 3/19/05
W5-PRP-44-62	8	45L / DN	—	—		FGD 3/19/05

EXAMINER F Godwin LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-6		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-35-44	1	45L / DN	X			FGD 3/19/05
W5-PRP-35-44	2	45L / UP	X			FGD 3/19/05
W5-PRP-35-44	3	45L / DN	X			FGD 3/19/05
W5-PRP-35-44	4	45L / UP	X			FGD 3/19/05
W5-PRP-35-44	5	45S / DN	X			FGD 3/19/05
W5-PRP-35-44	6	45S / UP	X			FGD 3/19/05
W5-PRP-35-44	7	45S / UP	X			FGD 3/19/05
W5-PRP-35-44	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-28-35	1	45L / DN	X			FGD 3/19/05
W5-PRP-28-35	2	45L / UP	X			FGD 3/19/05
W5-PRP-28-35	3	45L / DN	X			FGD 3/19/05
W5-PRP-28-35	4	45L / UP	X			FGD 3/19/05
W5-PRP-28-35	5	45S / DN	X			FGD 3/19/05
W5-PRP-28-35	6	45S / UP	X			FGD 3/19/05
W5-PRP-28-35	7	45S / UP	X			FGD 3/19/05
W5-PRP-28-35	8	45S / DN	—	—		FGD 3/19/05

EXAMINER F. Godbey LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-7		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-18-28	1	45L / DN	X			FGD 3/19/05
W5-PRP-18-28	2	45L / UP	X			FGD 3/19/05
W5-PRP-18-28	3	45L / DN	X			FGD 3/19/05
W5-PRP-18-28	4	45L / UP	X			FGD 3/19/05
W5-PRP-18-28	5	45S / DN	X			FGD 3/19/05
W5-PRP-18-28	6	45S / UP	X			FGD 3/19/05
W5-PRP-18-28	7	45S / UP	X			FGD 3/19/05
W5-PRP-18-28	8	45S / DN	—	—		FGD 3/19/05
W5-PRP-329-18	1	45L / DN		X	Indication # 2	FGD 3/19/05
W5-PRP-329-18	2	45L / UP		X	Indication # 2 Code Allowable	FGD 3/19/05
W5-PRP-329-18	3	45L / DN		X	Indication # 4 Code Allowable	FGD 3/19/05
W5-PRP-329-18	4	45L / UP		X	Indication # 4	FGD 3/19/05
W5-PRP-329-18	5	45S / DN		X	Indication # 4	FGD 3/19/05
W5-PRP-329-18	6	45S / UP		X	Indication # 4	FGD 3/19/05
W5-PRP-329-18	7	45S / UP	X			FGD 3/19/05
W5-PRP-329-18	8	45L / DN	—	—		FGD 3/19/05

EXAMINER F. Goodwin LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-8		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-322-329	1	45L / DN	X			FGD 3/19/05
W5-PRP-322-329	2	45L / UP	X			FGD 3/19/05
W5-PRP-322-329	3	45L / DN	X			FGD 3/19/05
W5-PRP-322-329	4	45L / UP	X			FGD 3/19/05
W5-PRP-322-329	5	45S / DN	X			FGD 3/19/05
W5-PRP-322-329	6	45S / UP	X			FGD 3/19/05
W5-PRP-322-329	7	45S / UP	X			FGD 3/19/05
W5-PRP-322-329	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-314-322	1	45L / DN		X	Indication # 5 Code Allowable	FGD 3/19/05
W5-PRP-314-322	2	45L / UP	X			FGD 3/19/05
W5-PRP-314-322	3	45L / DN	X			FGD 3/19/05
W5-PRP-314-322	4	45L / UP	X			FGD 3/19/05
W5-PRP-314-322	5	45S / DN	X			FGD 3/19/05
W5-PRP-314-322	6	45S / UP	X			FGD 3/19/05
W5-PRP-314-322	7	45S / UP	X			FGD 3/19/05
W5-PRP-314-322	8	45L / DN	X			FGD 3/19/05

EXAMINER F Brodie LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-9		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-305-314	1	45L / DN	X			FGD 3/19/05
W5-PRP-305-314	2	45L / UP	X			FGD 3/19/05
W5-PRP-305-314	3	45L / DN	X			FGD 3/19/05
W5-PRP-305-314	4	45L / UP	X			FGD 3/19/05
W5-PRP-305-314	5	45S / DN	X			FGD 3/19/05
W5-PRP-305-314	6	45S / UP	X			FGD 3/19/05
W5-PRP-305-314	7	45S / UP	X			FGD 3/19/05
W5-PRP-305-314	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-298-305	1	45L / DN		X	Indication # 6 Code Allowable	FGD 3/19/05
W5-PRP-298-305	2	45L / UP		X	Indication # 6	FGD 3/19/05
W5-PRP-298-305	3	45L / DN	X			FGD 3/19/05
W5-PRP-298-305	4	45L / UP	X			FGD 3/19/05
W5-PRP-298-305	5	45S / DN	X			FGD 3/19/05
W5-PRP-298-305	6	45S / UP	X			FGD 3/19/05
W5-PRP-298-305	7	45S / UP	X			FGD 3/19/05
W5-PRP-298-305	8	45L / DN	—	—		FGD 3/19/05

EXAMINER F. Goodlive LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-10		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-288-298	1	45L / DN	X			FGD 3/19/05
W5-PRP-288-298	2	45L / UP	X			FGD 3/19/05
W5-PRP-288-298	3	45L / DN	X			FGD 3/19/05
W5-PRP-288-298	4	45L / UP	X			FGD 3/19/05
W5-PRP-288-298	5	45S / DN	X			FGD 3/19/05
W5-PRP-288-298	6	45S / UP	X			FGD 3/19/05
W5-PRP-288-298	7	45S / UP	X			FGD 3/19/05
W5-PRP-288-298	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-281-288	1	45L / DN		X	Indication # 7, 8 Code Allowable	FGD 3/19/05
W5-PRP-281-288	2	45L / UP		X	Indication # 7, 8 Code Allowable	FGD 3/19/05
W5-PRP-281-288	3	45L / DN	X			FGD 3/19/05
W5-PRP-281-288	4	45L / UP	X			FGD 3/19/05
W5-PRP-281-288	5	45S / DN	X			FGD 3/19/05
W5-PRP-281-288	6	45S / UP	X			FGD 3/19/05
W5-PRP-281-288	7	45S / UP	X			FGD 3/19/05
W5-PRP-281-288	8	45L / DN	—	—		FGD 3/19/05

EXAMINER F Goodlet LEVEL III DATE 05/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-11		

DATAFILE	CHANNEL	R.A. / DIR	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-274-281	1	45L / DN		X	Indication # 9 Code Allowable	FGD 3/19/05
W5-PRP-274-281	2	45L / UP		X	Indication # 9	FGD 3/19/05
W5-PRP-274-281	3	45L / DN	X			FGD 3/19/05
W5-PRP-274-281	4	45L / UP	X			FGD 3/19/05
W5-PRP-274-281	5	45S / DN	X			FGD 3/19/05
W5-PRP-274-281	6	45S / UP	X			FGD 3/19/05
W5-PRP-274-281	7	45S / UP	X			FGD 3/19/05
W5-PRP-274-281	8	45L / DN	—	—		FGD 3/19/05
W5-PRP-235-274	1	45L / DN	X			FGD 3/20/05
W5-PRP-235-274	2	45L / UP	X			FGD 3/20/05
W5-PRP-235-274	3	45L / DN	X			FGD 3/20/05
W5-PRP-235-274	4	45L / UP	X			FGD 3/20/05
W5-PRP-235-274	5	45S / DN	X			FGD 3/20/05
W5-PRP-235-274	6	45S / UP	X			FGD 3/20/05
W5-PRP-235-274	7	45S / UP	X			FGD 3/20/05
W5-PRP-235-274	8	45L / DN	—	—		FGD 3/20/05

EXAMINER F. Bodine LEVEL III DATE 05/20/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-12		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-225-235	1	45L / DN	X			FGD 3/20/05
W5-PRP-225-235	2	45L / UP	X			FGD 3/20/05
W5-PRP-225-235	3	45L / DN	X			FGD 3/20/05
W5-PRP-225-235	4	45L / UP	X			FGD 3/20/05
W5-PRP-225-235	5	45S / DN	X			FGD 3/20/05
W5-PRP-225-235	6	45S / UP	X			FGD 3/20/05
W5-PRP-225-235	7	45S / UP	X			FGD 3/20/05
W5-PRP-225-235	8	45L / DN	—	—		FGD 3/20/05
W5-PRP-199-225	1	45L / DN	X			FGD 3/20/05
W5-PRP-199-225	2	45L / UP	X			FGD 3/20/05
W5-PRP-199-225	3	45L / DN	X			FGD 3/20/05
W5-PRP-199-225	4	45L / UP	X			FGD 3/20/05
W5-PRP-199-225	5	45S / DN	X			FGD 3/20/05
W5-PRP-199-225	6	45S / UP	X			FGD 3/20/05
W5-PRP-199-225	7	45S / UP	X			FGD 3/20/05
W5-PRP-199-225	8	45L / DN	—	—		FGD 3/20/05

EXAMINER F. Goodwin LEVEL III. DATE 03/20/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-13		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-191-199	1	45L / DN	X			FGD 3/20/05
W5-PRP-191-199	2	45L / UP	X			FGD 3/20/05
W5-PRP-191-199	3	45L / DN	X			FGD 3/20/05
W5-PRP-191-199	4	45L / UP	X			FGD 3/20/05
W5-PRP-191-199	5	45S / DN	X			FGD 3/20/05
W5-PRP-191-199	6	45S / UP	X			FGD 3/20/05
W5-PRP-191-199	7	45S / UP	X			FGD 3/20/05
W5-PRP-191-199	8	45L / DN	—	—		FGD 3/20/05
W5-PAR-180-224	1	45L / CW	X			CHL 3/19/05
W5-PAR-180-224	2	45L / CCW	X			CHL 3/19/05
W5-PAR-180-224	3	45L / CW	X			CHL 3/19/05
W5-PAR-180-224	4	45L / CCW	X			CHL 3/19/05
W5-PAR-180-224	5	45S / CW	X			CHL 3/19/05
W5-PAR-180-224	6	45S / CCW	X			CHL 3/19/05
W5-PAR-180-224	7	45S / CCW	X			CHL 3/19/05
W5-PAR-180-224	8	45L / CW	X			CHL 3/19/05

EXAMINER F. Gonzalez Chang Hun Lee LEVEL III DATE 03/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #
PROCEDURE: PDI-ISI-254	REVISION: 7	
WELD # 2RPV-W01	WELD TYPE: LOWER HEAD TO BOTTOM HEAD CIRC	
Calibration Data Sheet No. LS1 - LS8	Acquisition Log Sheet No. W5-1, W5-2, W5-3	
Analysis Log Sheet No. W5-14		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-316-17	1	45L / CW	X			CHL 3/19/05
W5-PAR-316-17	2	45L / CCW	X			CHL 3/19/05
W5-PAR-316-17	3	45L / CW	X			CHL 3/19/05
W5-PAR-316-17	4	45L / CCW	X			CHL 3/19/05
W5-PAR-316-17	5	45S / CW	X			CHL 3/19/05
W5-PAR-316-17	6	45S / CCW	X			CHL 3/19/05
W5-PAR-316-17	7	45S / CCW	X			CHL 3/19/05
W5-PAR-316-17	8	45L / CW	X			CHL 3/19/05
W5-PAR-146-180	1	45L / CW	X			CHL 3/19/05
W5-PAR-146-180	2	45L / CCW	X			CHL 3/19/05
W5-PAR-146-180	3	45L / CW	X			CHL 3/19/05
W5-PAR-146-180	4	45L / CCW	X			CHL 3/19/05
W5-PAR-146-180	5	45S / CW	X			CHL 3/19/05
W5-PAR-146-180	6	45S / CCW	X			CHL 3/19/05
W5-PAR-146-180	7	45S / CCW	X			CHL 3/19/05
W5-PAR-146-180	8	45L / CW	X			CHL 3/19/05

EXAMINER Chang Hun Lee LEVEL III DATE 03-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-15		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-175-191	1	45L / DN	X			CHL 3/19/05
W5-PRP-175-191	2	45L / UP	X			CHL 3/19/05
W5-PRP-175-191	3	45L / DN	X			CHL 3/19/05
W5-PRP-175-191	4	45L / UP	X			CHL 3/19/05
W5-PRP-175-191	5	45S / DN	X			CHL 3/19/05
W5-PRP-175-191	6	45S / UP	X			CHL 3/19/05
W5-PRP-175-191	7	45S / UP	X			CHL 3/19/05
W5-PRP-175-191	8	45L / DN	X			CHL 3/19/05
W5-PAR-46-61	1	45L / CW	X			LMM 3/19/05
W5-PAR-46-61	2	45L / CCW	X			LMM 3/19/05
W5-PAR-46-61	3	45L / CW	X			LMM 3/19/05
W5-PAR-46-61	4	45L / CCW	X			LMM 3/19/05
W5-PAR-46-61	5	45S / CW	X			LMM 3/19/05
W5-PAR-46-61	6	45S / CCW	X			LMM 3/19/05
W5-PAR-46-61	7	45S / CCW	X			LMM 3/19/05
W5-PAR-46-61	8	45L / CW	X			LMM 3/19/05

EXAMINER Harry M. Musgrove Chang Hun Lee LEVEL II / III DATE 3-19-05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-16		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-72-134	1	45L / CW	X			SAS 3/19/05
W5-PAR-72-134	2	45L / CCW	X			SAS 3/19/05
W5-PAR-72-134	3	45L / CW	X			SAS 3/19/05
W5-PAR-72-134	4	45L / CCW	X			SAS 3/19/05
W5-PAR-72-134	5	45S / CW	X			SAS 3/19/05
W5-PAR-72-134	6	45S / CCW		X	Indication # 3 Code Allowable	SAS 3/19/05
W5-PAR-72-134	7	45S / CCW	X			SAS 3/19/05
W5-PAR-72-134	8	45L / CW	X			SAS 3/19/05

EXAMINER S F Sobo LEVEL III DATE 3/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-17		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-61-72a	1	45L / CW	X			SAS 3/19/05
W5-PAR-61-72a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-61-72a	3	45L / CW	X			SAS 3/19/05
W5-PAR-61-72a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-61-72a	5	45S / CW	X			SAS 3/19/05
W5-PAR-61-72a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-61-72a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-61-72a	8	45L / CW	—	—		SAS 3/19/05
W5-PAR-34-46a	1	45L / CW	X			SAS 3/19/05
W5-PAR-34-46a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-34-46a	3	45L / CW	X			SAS 3/19/05
W5-PAR-34-46a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-34-46a	5	45S / CW	X			SAS 3/19/05
W5-PAR-34-46a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-34-46a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-34-46a	8	45L / CW	—	—		SAS 3/19/05

EXAMINER [signature] LEVEL III DATE 3/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-18		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-17-34a	1	45L / CW	X			SAS 3/19/05
W5-PAR-17-34a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-17-34a	3	45L / CW	X			SAS 3/19/05
W5-PAR-17-34a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-17-34a	5	45S / CW	X			SAS 3/19/05
W5-PAR-17-34a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-17-34a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-17-34a	8	45L / CW	—	—		SAS 3/19/05
W5-PAR-287-304a	1	45L / CW	X			SAS 3/19/05
W5-PAR-287-304a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-287-304a	3	45L / CW	X			SAS 3/19/05
W5-PAR-287-304a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-287-304a	5	45S / CW	X			SAS 3/19/05
W5-PAR-287-304a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-287-304a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-287-304a	8	45L / CW	—	—		SAS 3/19/05

EXAMINER [signature] LEVEL III DATE 3/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-19		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-304-316a	1	45L / CW	X			SAS 3/19/05
W5-PAR-304-316a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-304-316a	3	45L / CW	X			SAS 3/19/05
W5-PAR-304-316a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-304-316a	5	45S / CW	X			SAS 3/19/05
W5-PAR-304-316a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-304-316a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-304-316a	8	45L / CW	—	—		SAS 3/19/05
W5-PAR-224-236a	1	45L / CW	X			SAS 3/19/05
W5-PAR-224-236a	2	45L / CCW	X			SAS 3/19/05
W5-PAR-224-236a	3	45L / CW	X			SAS 3/19/05
W5-PAR-224-236a	4	45L / CCW	X			SAS 3/19/05
W5-PAR-224-236a	5	45S / CW	X			SAS 3/19/05
W5-PAR-224-236a	6	45S / CCW	X			SAS 3/19/05
W5-PAR-224-236a	7	45S / CCW	X			SAS 3/19/05
W5-PAR-224-236a	8	45L / CW	—	—		SAS 3/19/05

EXAMINER [signature] LEVEL III DATE 3/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2	OPTICAL DISK #	
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-20		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PAR-134-146b	1	45L / CW	X			SAS 3/19/05
W5-PAR-134-146b	2	45L / CCW	X			SAS 3/19/05
W5-PAR-134-146b	3	45L / CW	X			SAS 3/19/05
W5-PAR-134-146b	4	45L / CCW	X			SAS 3/19/05
W5-PAR-134-146b	5	45S / CW	X			SAS 3/19/05
W5-PAR-134-146b	6	45S / CCW	X			SAS 3/19/05
W5-PAR-134-146b	7	45S / CCW	X			SAS 3/19/05
W5-PAR-134-146b	8	45L / CW	—	—		SAS 3/19/05
W5-PRP-102-109	1	45L / DN	X			CHL 3/19/05
W5-PRP-102-109	2	45L / UP	X			CHL 3/19/05
W5-PRP-102-109	3	45L / DN	X			CHL 3/19/05
W5-PRP-102-109	4	45L / UP	X			CHL 3/19/05
W5-PRP-102-109	5	45S / DN	X			CHL 3/19/05
W5-PRP-102-109	6	45S / UP	X			CHL 3/19/05
W5-PRP-102-109	7	45S / UP	X			CHL 3/19/05
W5-PRP-102-109	8	45L / DN	X			CHL 3/19/05

EXAMINER Chang Hun Lee LEVEL III DATE 3/19/05

WESDYNE INTERNATIONAL

ANALYSIS LOG

PLANT / UNIT	McGUIRE / 2		OPTICAL DISK #
PROCEDURE:	PDI-ISI-254	REVISION:	7
WELD #	2RPV-W01	WELD TYPE:	LOWER HEAD TO BOTTOM HEAD CIRC
Calibration Data Sheet No.	LS1 - LS8	Acquisition Log Sheet No.	W5-1, W5-2, W5-3
Analysis Log Sheet No.	W5-21		

DATAFILE	CHANNEL	R.A. / DIR.	N.I.	R.I.	R.I. RESOLUTION / COMMENTS / LIMITATIONS	ANALYST / DATE
W5-PRP-71-102	1	45L / DN	X			CHL 3/19/05
W5-PRP-71-102	2	45L / UP	X			CHL 3/19/05
W5-PRP-71-102	3	45L / DN	X			CHL 3/19/05
W5-PRP-71-102	4	45L / UP	X			CHL 3/19/05
W5-PRP-71-102	5	45S / DN	X			CHL 3/19/05
W5-PRP-71-102	6	45S / UP	X			CHL 3/19/05
W5-PRP-71-102	7	45S / UP	X			CHL 3/19/05
W5-PRP-71-102	8	45L / DN	X			CHL 3/19/05

EXAMINER Chang Hun Lee LEVEL III DATE 03-19-05

WESDYNE INTERNATIONAL

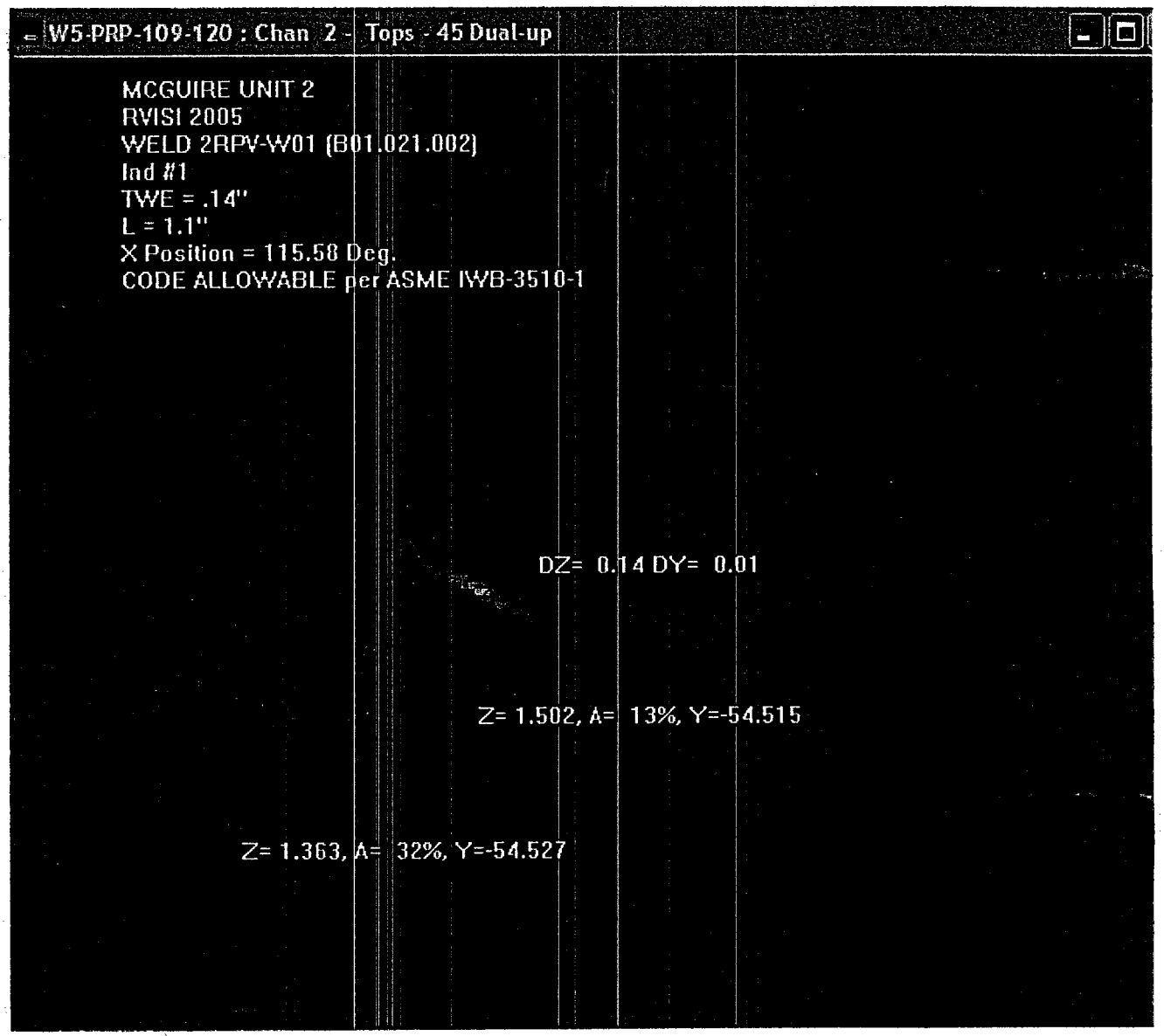
INDICATION ASSESSMENT

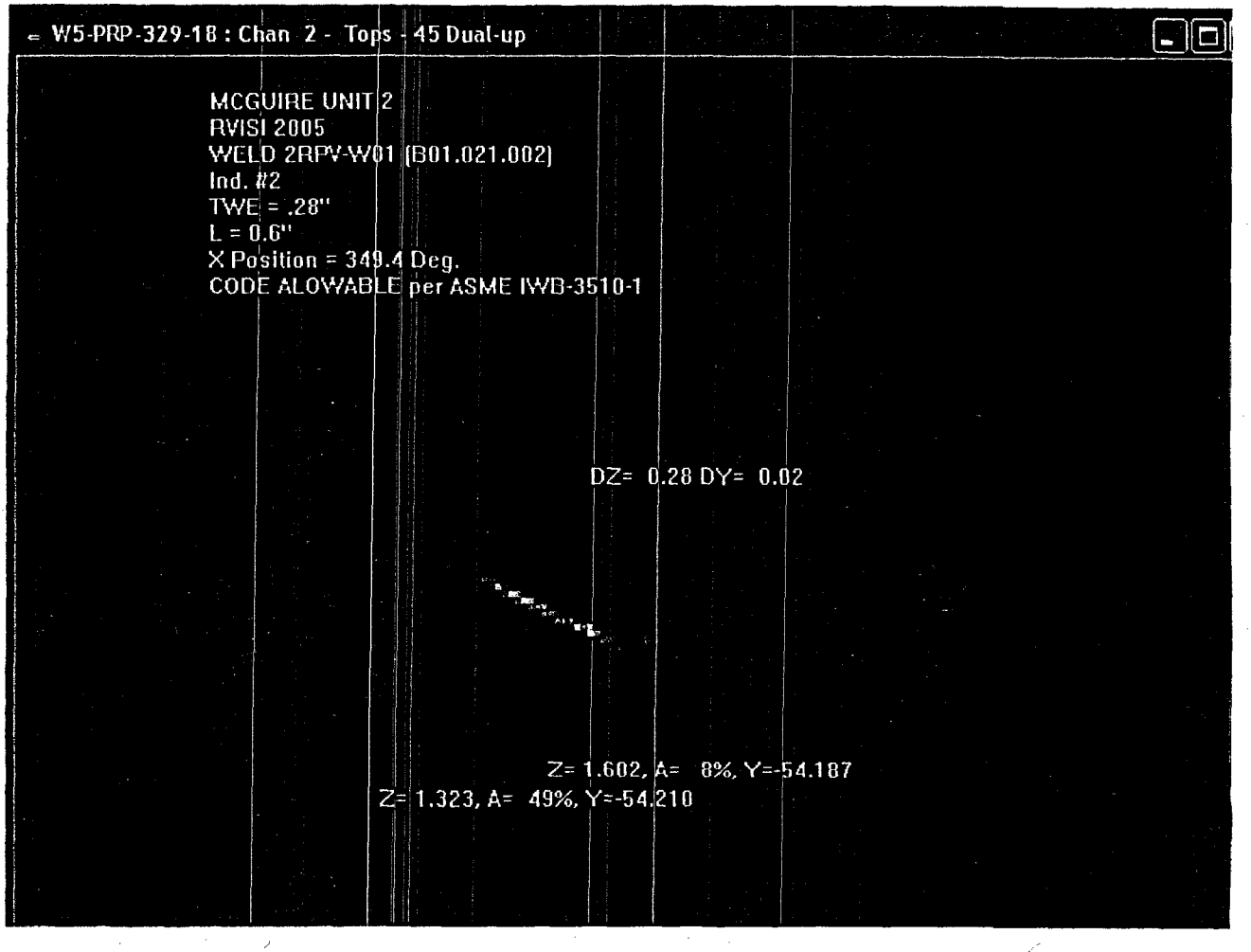
PLANT: McGUIRE | UNIT: 2
PROCEDURE: PDI-ISI-254 | REV.: 7
ANALYST: [signature] | LEVEL: III | DATE: 3/20/06

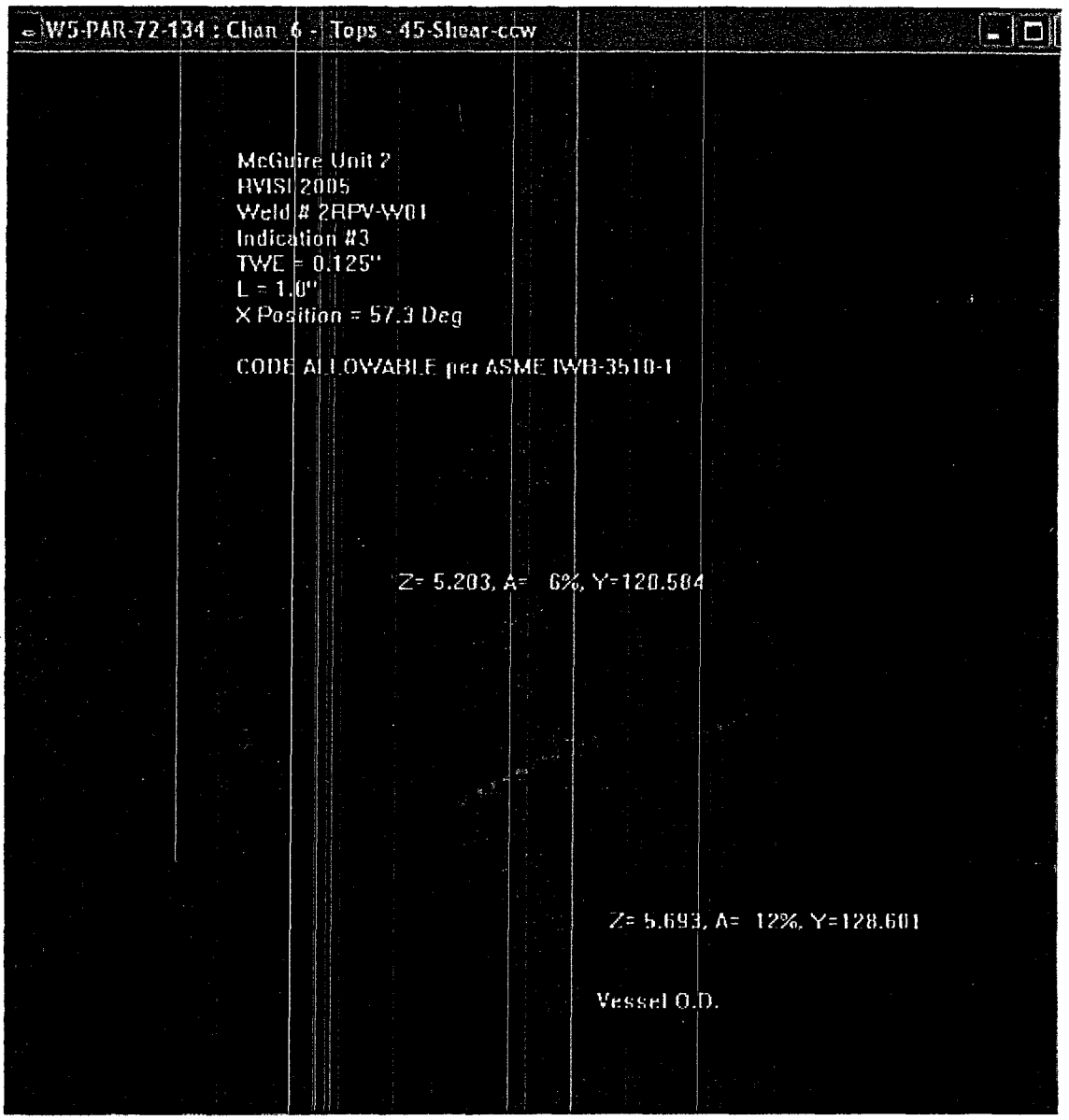
FILE / BUFFER	DISK	WELD NO.	INDICATION NO.	BEAM ANGLE	BEAM DIRECTION	CLASSIFICATION VOLUMETRIC / PLANAR	APPLICABLE "t"	FLAW DEPTH MIN / MAX	LENGTH (L)	SURF. / SUB.	S. DIM.	Y VALUE (S / a)	2a DIM. / a DIM.	a / L VALUE (0.50 MAX)	a / t%	ALLOWABLE a / t%	PDE: MAX AMP (% DAC)	PDE: X (SWP#)	ASME: YS	ASME: ZS	NOTES
W5-PRP-109-120-2	N/A	2RPV-W01	1	45	UP	P	5.59	1.36 / 1.50	1.1	SUB	1.21	1.0	0.14 / 0.07	0.64	1.25	2.26	32	115.6°	54.5°	1.28	(1)
W5-PRP-329-18-2	N/A	2RPV-W01	2	45	UP	P	5.59	1.32 / 1.60	0.6	SUB	1.17	1.0	0.28 / 0.14	.233	2.5	3.63	49	349.4°	54.2°	1.46	(1)
W5-PAR-72-134-6	N/A	2RPV-W01	3	45	CCW	P	5.59	0.43 / 0.56	1.0	SUB	0.43	1.0	0.125 / 0.063	.063	1.12	2.26	6	57.3°	126.6°	5.20	(1)
W5-PRP-329-18-3	N/A	2RPV-W01	4	45	DN	P	5.59	3.33 / 3.46	.75	SUB	3.18	1.0	0.125 / 0.063	.063	1.12	2.40	99	351.0°	54.7°	3.39	(1)
W5-PRP-314-322-1	N/A	2RPV-W01	5	45	DN	P	5.59	0.45 / 0.57	1.1	SUB	0.3	1.0	0.125 / 0.063	.057	1.12	2.24	62	322.6°	54.9°	0.51	(1)
W5-PRP-298-305-1	N/A	2RPV-W01	6	45	DN	P	5.59	1.44 / 1.56	1.1	SUB	1.29	1.0	0.125 / 0.063	.057	1.12	2.24	98	303.19°	55.6°	1.5	(1)
W5-PRP-298-305-1	N/A	2RPV-W01	7	45	UP	P	5.59	1.06 / 1.19	3.6	SUB	0.91	1.0	0.125 / 0.063	0.17	1.12	2.00	70	283.5°	54.4°	1.12	(1)
W5-PRP-281-288-2	N/A	2RPV-W01	8	45	DN	P	5.59	1.34 / 1.54	1.6	SUB	1.19	1.0	0.20 / 0.10	.063	1.79	2.26	65	289.2°	54.4°	1.44	(1)
W5-PRP-281-288-1	N/A	2RPV-W01	9	45	DN	P	5.59	1.32 / 1.52	1.6	SUB	1.17	1.0	0.20 / 0.10	.063	1.79	2.26	100	281.2°	54.2°	1.42	(1)

NOTES (1) CODE ALLOWABLE PER ASME XI 1989, IWB-3510-1

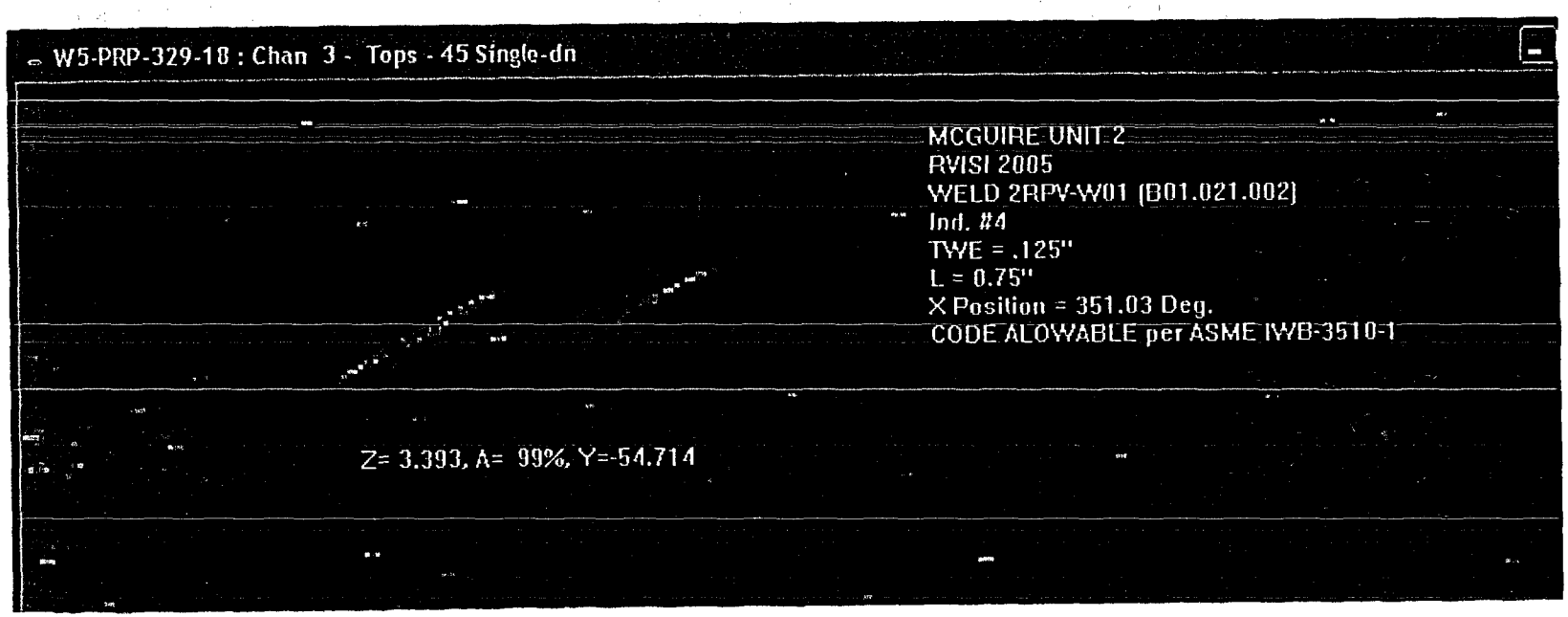
Calibration Data Sheet No. LS-1 - LS-6
Acquisition Log Sheet No. W5-1,2,3
Analysis Log Sheet No. W5-4,7,8,9,10,11,16

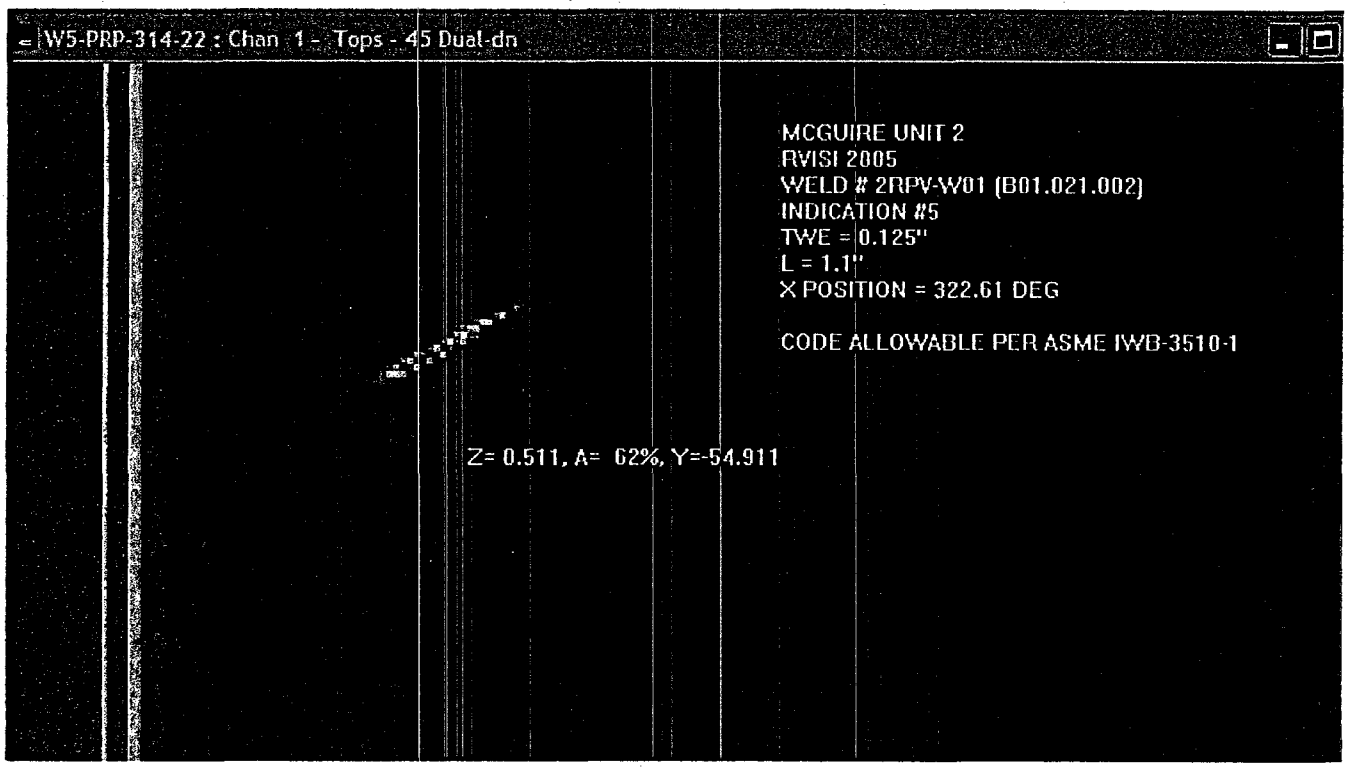

W5-PRP-109-120 : Chan 2 - Tops - 45 Dual-up
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind #1
TWE = .14"
L = 1.1"
X Position = 115.58 Deg.
CODE ALLOWABLE per ASME IWB-3510-1
DZ= 0.14 DY= 0.01
Z= 1.502, A= 13%, Y=-54.515
Z= 1.363, A= 32%, Y=-54.527

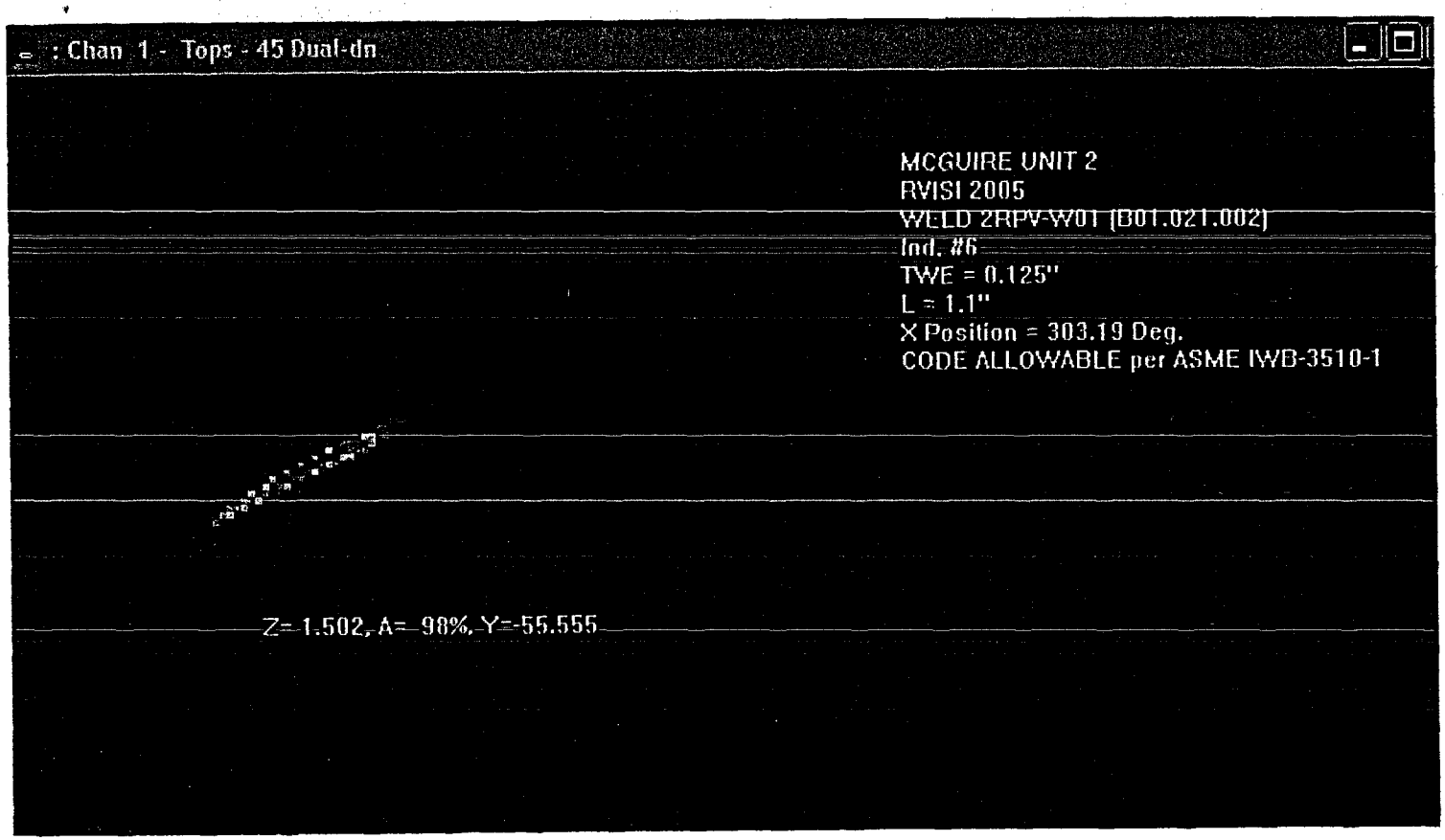

W5-PRP-329-18 : Chan 2 - Tops - 45 Dual-up
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind. #2
TWE = .28"
L = 0.6"
X Position = 349.4 Deg.
CODE ALOWABLE per ASME IWB-3510-1
DZ= 0.28 DY= 0.02
Z= 1.602, A= 8%, Y=-54.187
Z= 1.323, A= 49%, Y=-54.210

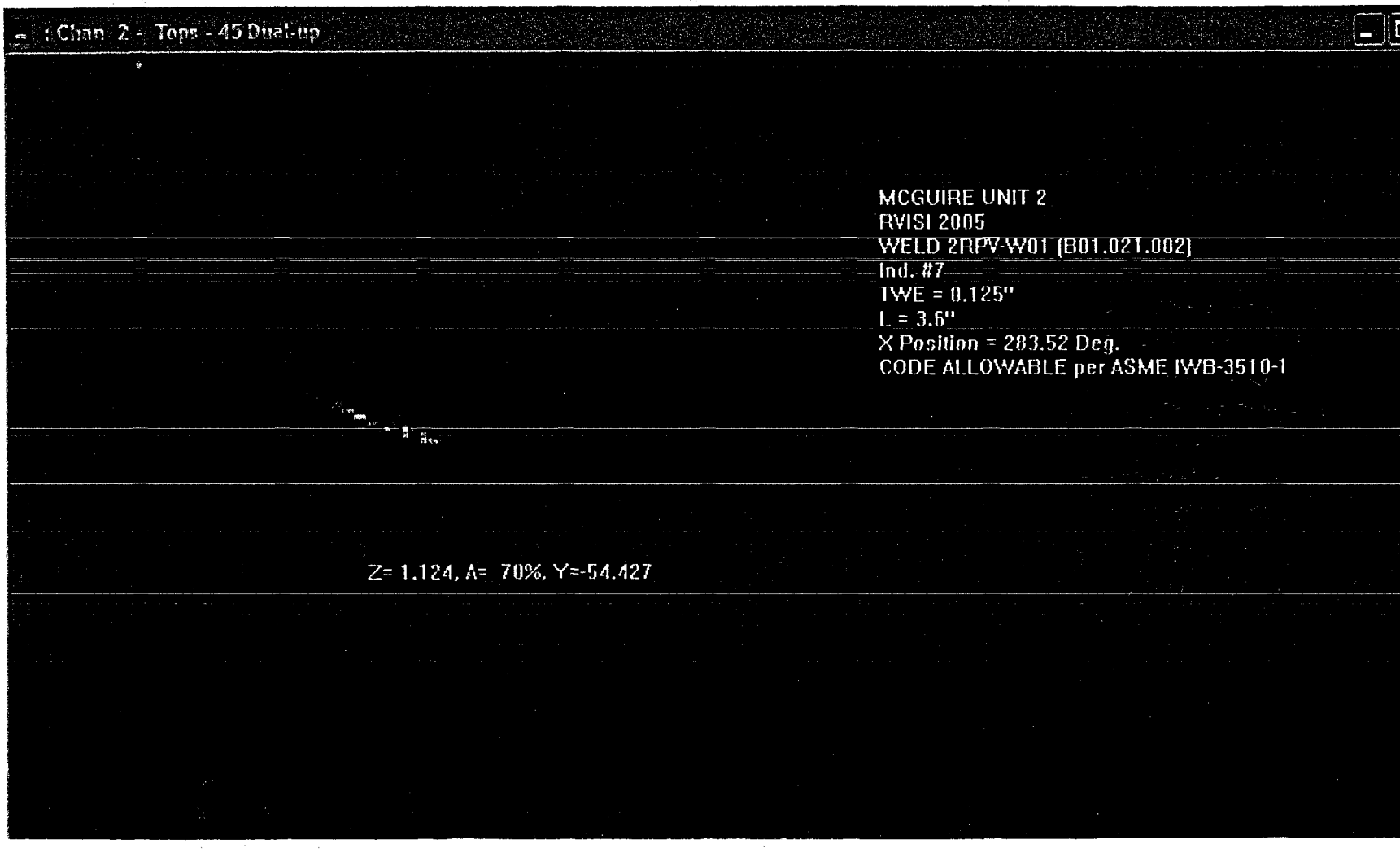


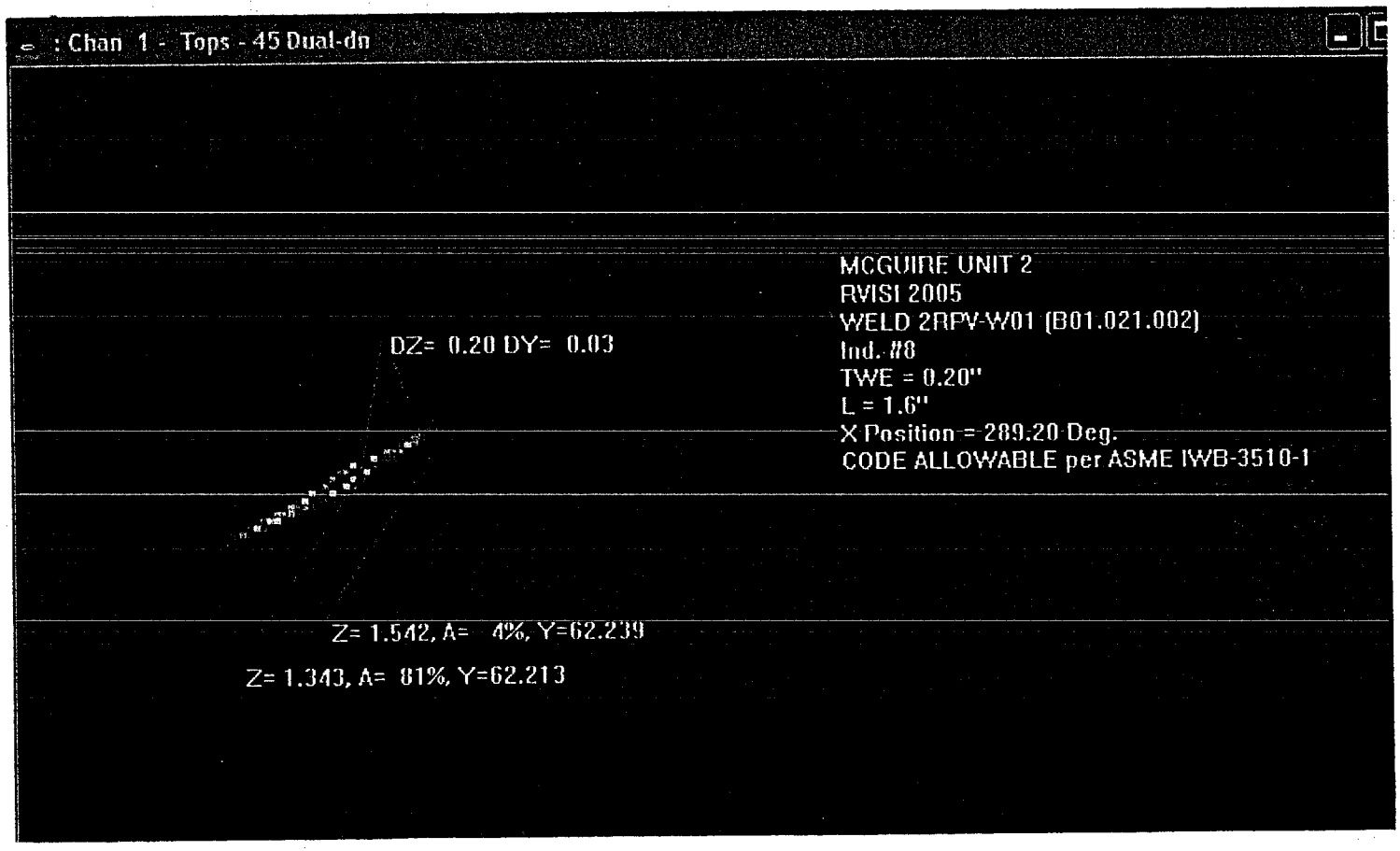
Item # B01.021.002 SJB 5-26-05

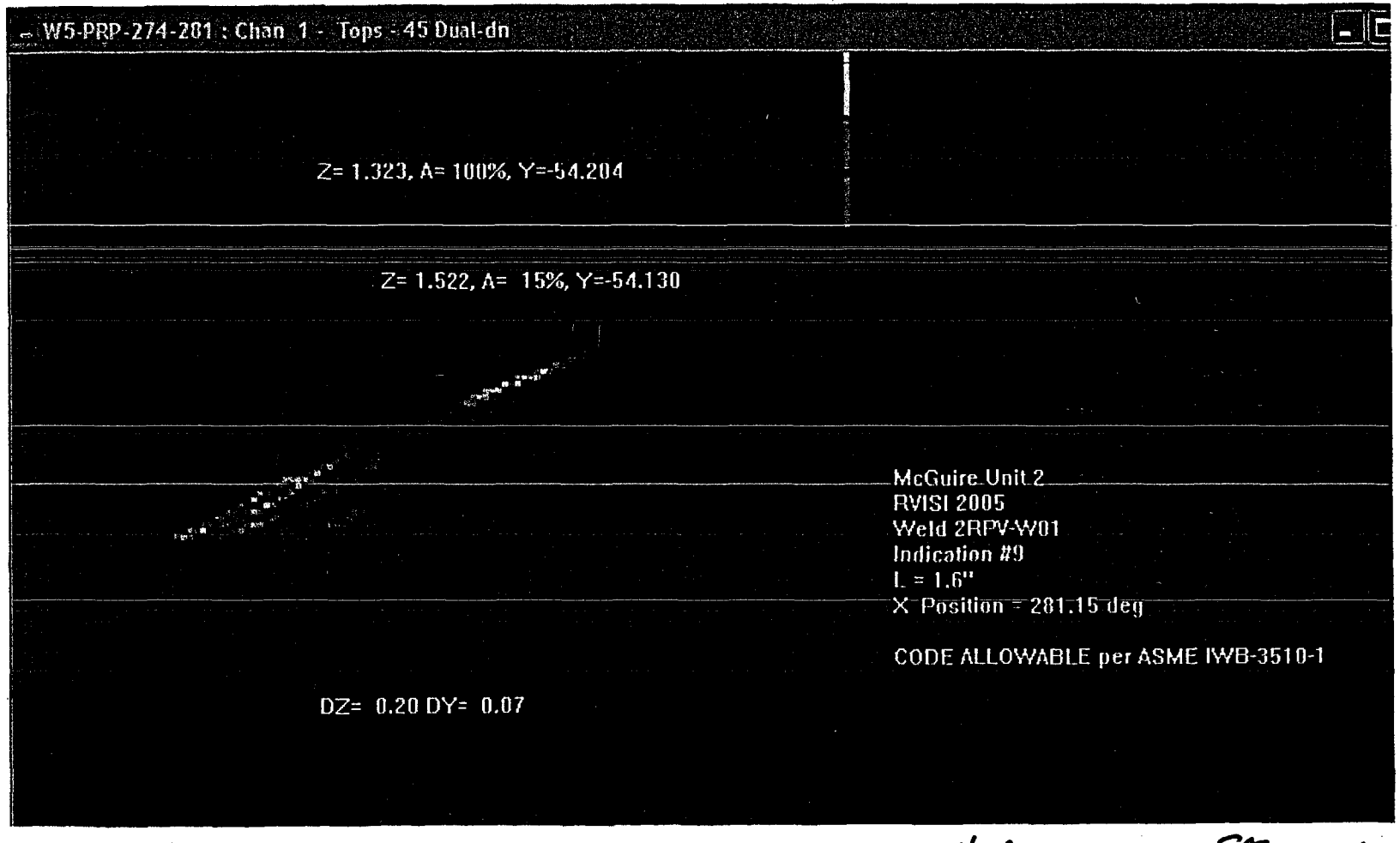

W5-PRP-329-18 : Chan 3 - Tops - 45 Single-dn
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind. #4
TWE = .125"
L = 0.75"
X Position = 351.03 Deg.
CODE ALOWABLE per ASME IWB-3510-1
Z= 3.393, A= 99%, Y=-54.714


W5-PRP-314-22 : Chan 1 - Tops - 45 Dual-dn
MCGUIRE UNIT 2
RVISI 2005
WELD # 2RPV-W01 (B01.021.002)
INDICATION #5
TWE = 0.125"
L = 1.1"
X POSITION = 322.61 DEG
CODE ALLOWABLE PER ASME IWB-3510-1
Z= 0.511, A= 62%, Y=-54.911


: Chan 1 - Tops - 45 Dual-dn
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind. #6
TWE = 0.125"
L = 1.1"
X Position = 303.19 Deg.
CODE ALLOWABLE per ASME IWB-3510-1
Z=-1.502, A=-98%, Y=-55.555


: Chan 2 - Tops - 45 Dual-up
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind. #7
TWE = 0.125"
L = 3.6"
X Position = 283.52 Deg.
CODE ALLOWABLE per ASME IWB-3510-1
Z= 1.124, A= 70%, Y=-54.427


: Chan 1 - Tops - 45 Dual-dn
MCGUIRE UNIT 2
RVISI 2005
WELD 2RPV-W01 (B01.021.002)
Ind. #8
TWE = 0.20"
L = 1.6"
X Position = 289.20 Deg.
CODE ALLOWABLE per ASME IWB-3510-1
DZ= 0.20 DY= 0.03
Z= 1.542, A= 4%, Y=62.239
Z= 1.343, A= 81%, Y=62.213



Item # B01.021.002 BS 5-26-05

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG

PLANT / UNIT	INTERVAL:	PERIOD:	OUTAGE:
McGUIRE / 2	2	3	2EOC16

PROCEDURE:	REVISION:
PDI-ISI-254	7

Calibration Data Sheet No. LS1 - LS8 Acquisition Log Sheet No. W5-1

DATAFILE NAME	WELD #	INDEX START	SCAN START	OPERATOR	LEVEL	DATE	COMMENTS
W5-PAR-180-224	2RPV-W01	58.30	180.00	KRS	I T	3/19/05	
W5-PAR-224-236	2RPV-W01	58.30	224.00	KRS	I T	3/19/05	
W5-PAR-236-287	2RPV-W01	58.30	236.25	KRS	I T	3/19/05	
W5-PAR-287-304	2RPV-W01	58.30	287.50	KRS	I T	3/19/05	
W5-PAR-304-316	2RPV-W01	58.30	304.25	KRS	I T	3/19/05	
W5-PAR-316-17	2RPV-W01	58.30	316.00	KRS	I T	3/19/05	
W5-PAR-17-34	2RPV-W01	58.30	17.60	KRS	I T	3/19/05	
W5-PAR-34-46	2RPV-W01	58.30	34.40	KRS	I T	3/19/05	
W5-PAR-46-61	2RPV-W01	58.30	46.00	KRS	I T	3/19/05	
W5-PAR-61-72	2RPV-W01	58.30	61.00	KRS	I T	3/19/05	
W5-PAR-72-134	2RPV-W01	58.30	72.50	KRS	I T	3/19/05	
W5-PAR-146-180	2RPV-W01	58.30	146.30	KRS	I T	3/19/05	
W5-PRP-175-191	2RPV-W01	175.00	58.30	KRS	I T	3/19/05	
W5-PRP-168-175	2RPV-W01	168.25	58.30	KRS	I T	3/19/05	
W5-PRP-145-168	2RPV-W01	145.00	58.30	KRS	I T	3/19/05	
W5-PRP-135-145	2RPV-W01	135.50	58.30	KRS	I T	3/19/05	
W5-PRP-127-135	2RPV-W01	127.00	58.30	KRS	I T	3/19/05	
W5-PRP-120-127	2RPV-W01	120.00	58.30	KRS	I T	3/19/05	
W5-PRP-109-120	2RPV-W01	109.25	58.30	KRS	I T	3/19/05	
W5-PRP-102-109	2RPV-W01	102.00	58.30	KRS	I T	3/19/05	
W5-PRP-71-102	2RPV-W01	71.50	58.30	KRS	I T	3/19/05	

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG

PLANT / UNIT	INTERVAL:	PERIOD:	OUTAGE:
McGUIRE / 2	2	3	2EOC16

PROCEDURE:	REVISION:
PDI-ISI-254	7

Calibration Data Sheet No. LS1 - LS8 Acquisition Log Sheet No. W5-2

DATAFILE NAME	WELD #	INDEX START	SCAN START	OPERATOR	LEVEL	DATE	COMMENTS
W5-PRP-62-71	2RPV-W01	62.00	58.30	KRS	I T	3/19/05	
W5-PRP-44-62	2RPV-W01	44.50	58.30	KRS	I T	3/19/05	
W5-PRP-35-44	2RPV-W01	35.00	58.30	KRS	I T	3/19/05	
W5-PRP-28-35	2RPV-W01	28.00	58.30	KRS	I T	3/19/05	
W5-PRP-18-28	2RPV-W01	18.50	58.30	KRS	I T	3/19/05	
W5-PRP-329-18	2RPV-W01	329.75	58.30	KRS	I T	3/19/05	
W5-PRP-322-329	2RPV-W01	322.50	58.30	KRS	I T	3/19/05	
W5-PRP-314-322	2RPV-W01	314.50	58.30	KRS	I T	3/19/05	
W5-PRP-305-314	2RPV-W01	305.00	58.30	KRS	I T	3/19/05	
W5-PRP-298-305	2RPV-W01	298.00	58.30	KRS	I T	3/19/05	
W5-PRP-288-298	2RPV-W01	288.50	58.30	KRS	I T	3/19/05	
W5-PRP-281-288	2RPV-W01	281.50	58.30	KRS	I T	3/19/05	
W5-PRP-274-281	2RPV-W01	274.50	58.30	KRS	I T	3/19/05	
W5-PRP-235-274	2RPV-W01	235.00	58.30	KRS	I T	3/19/05	
W5-PRP-225-235	2RPV-W01	225.50	58.30	KRS	I T	3/19/05	
W5-PRP-199-225	2RPV-W01	199.25	58.30	KRS	I T	3/19/05	
W5-PRP-191-199	2RPV-W01	191.25	58.30	KRS	I T	3/19/05	
W5-PAR61-72a	2RPV-W01	58.30	61.00	JCAS	II	3/19/05	
W5-PAR34-46a	2RPV-W01	58.30	164.55	JCAS	II	3/19/05	
W5-PAR17-34a	2RPV-W01	58.30	17.60	JCAS	II	3/19/05	
W5-PAR-287-304a	2RPV-W01	58.30	287.50	JCAS	II	3/19/05	

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG

PLANT / UNIT	INTERVAL:	PERIOD:	OUTAGE:
McGUIRE / 2	2	3	2EOC16

PROCEDURE:	REVISION:
PDI-ISI-254	7

Calibration Data Sheet No. LS1 - LS8 Acquisition Log Sheet No. W5-3

DATAFILE NAME	WELD #	INDEX START	SCAN START	OPERATOR	LEVEL	DATE	COMMENTS
W5-PAR-304-316a	2RPV-W01	58.30	304.25	JCAS	II	3/19/05	
W5-PAR-224-236a	2RPV-W01	58.30	224.00	JCAS	II	3/19/05	
W5-PAR-134-146b	2RPV-W01	58.30	134.00	JCAS	II	3/19/05	

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-180-224

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	180.00
TOP RIGHT	:	58.30	224.00
BOTTOM LEFT	:	50.70	180.00
BOTTOM RIGHT	:	50.70	224.00

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 25

	Time	Date
Scan Started	02:47:46.675	03/19/05
Scan Completed	03:02:47.987	03/19/05

Robot Operator Signature Michael J. Brabazon Jr. DATE 3-19-05

PARAGON Operator Signature Karlen Robinson DATE 3-19-05

Comments ________ SAS

5-31-05

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-224-236

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	224.00
TOP RIGHT	:	58.30	236.25
BOTTOM LEFT	:	54.30	224.00
BOTTOM RIGHT	:	54.30	236.25

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	10:19:19.611	03/19/05
Scan Completed	10:20:52.765	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-236-287

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	236.25
TOP RIGHT	:	58.30	287.50
BOTTOM LEFT	:	50.70	236.25
BOTTOM RIGHT	:	50.70	287.50

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 25

	Time	Date
Scan Started	03:10:01.806	03/19/05
Scan Completed	03:18:49.965	03/19/05

Robot Operator Signature Michael J Graham Jr DATE 3-19-05

PARAGON Operator Signature Karl Stern DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-287-304

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	287.50
TOP RIGHT	:	58.30	304.25
BOTTOM LEFT	:	52.70	287.50
BOTTOM RIGHT	:	52.70	304.25

Index Size (in) = 0.50
Number of Indexes Specified = 19
Number of Indexes Completed = 19

	Time	Date
Scan Started	09:56:20.263	03/19/05
Scan Completed	09:59:06.144	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-304-316

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	304.25
TOP RIGHT	:	58.30	316.00
BOTTOM LEFT	:	55.00	304.25
BOTTOM RIGHT	:	55.00	316.00

Index Size (in) = 0.50
Number of Indexes Specified = 12
Number of Indexes Completed = 12

	Time	Date
Scan Started	09:49:45.735	03/19/05
Scan Completed	09:51:03.814	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-316-17

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	316.00
TOP RIGHT	:	58.30	377.60
BOTTOM LEFT	:	50.70	316.00
BOTTOM RIGHT	:	50.70	377.60

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 25

	Time	Date
Scan Started	03:28:07.516	03/19/05
Scan Completed	03:35:46.559	03/19/05

Robot Operator Signature Michael J Bruhn, Jr DATE 3-19-05

PARAGON Operator Signature Kaelan R Lewis DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-17-34

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	17.60
TOP RIGHT	:	58.30	34.40
BOTTOM LEFT	:	52.00	17.60
BOTTOM RIGHT	:	52.00	34.40

Index Size (in) = 0.50
Number of Indexes Specified = 21
Number of Indexes Completed = 21

	Time	Date
Scan Started	09:35:15.029	03/19/05
Scan Completed	09:38:24.061	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-34-46

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	34.40
TOP RIGHT	:	58.30	46.00
BOTTOM LEFT	:	54.30	34.40
BOTTOM RIGHT	:	54.30	46.00

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	09:26:52.303	03/19/05
Scan Completed	09:28:25.210	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-46-61

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	46.00
TOP RIGHT	:	58.30	61.00
BOTTOM LEFT	:	50.70	46.00
BOTTOM RIGHT	:	50.70	61.00

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 25

	Time	Date
Scan Started	03:43:49.886	03/19/05
Scan Completed	03:46:23.581	03/19/05

Robot Operator Signature Michael J Sobczyk, JR DATE 3-19-05

PARAGON Operator Signature K [signature] DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-61-72

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	61.00
TOP RIGHT	:	58.30	72.50
BOTTOM LEFT	:	53.10	61.00
BOTTOM RIGHT	:	53.10	72.50

Index Size (in) = 0.50
Number of Indexes Specified = 18
Number of Indexes Completed = 18

	Time	Date
Scan Started	09:15:48.429	03/19/05
Scan Completed	09:17:41.452	03/19/05

Robot Operator Signature _____ DATE 3/19/05

PARAGON Operator Signature _____ DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-72-134

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	72.50
TOP RIGHT	:	58.30	134.00
BOTTOM LEFT	:	50.70	72.50
BOTTOM RIGHT	:	50.70	134.00

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 21

	Time	Date
Scan Started	03:50:41.414	03/19/05
Scan Completed	04:05:35.710	03/19/05

Robot Operator Signature *Michael J. Szabo Jr* DATE *3-19-05*

PARAGON Operator Signature *Karlon Blevins* DATE *3-19-05*

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-146-180

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	146.30
TOP RIGHT	:	58.30	180.00
BOTTOM LEFT	:	50.70	146.30
BOTTOM RIGHT	:	50.70	180.00

Index Size (in) = 0.50
Number of Indexes Specified = 25
Number of Indexes Completed = 23

	Time	Date
Scan Started	04:11:04.564	03/19/05
Scan Completed	04:18:46.266	03/19/05

Robot Operator Signature Michael G Graham JR DATE 3-19-05

PARAGON Operator Signature Karen L Sims DATE 3-19-05

Comments Scan 24 & 25 rough surface rescanned 3 times same results.

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-175-191

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	175.00	58.30
TOP RIGHT	:	191.25	58.30
BOTTOM LEFT	:	175.00	50.70
BOTTOM RIGHT	:	191.25	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 52
Number of Indexes Completed = 52

	Time	Date
Scan Started	04:27:59.150	03/19/05
Scan Completed	04:35:34.794	03/19/05

Robot Operator Signature Michael [signature] Jr DATE 3-19-05

PARAGON Operator Signature Karlen [signature] DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-168-175

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	168.25	58.30
TOP RIGHT	:	175.00	58.30
BOTTOM LEFT	:	168.25	50.90
BOTTOM RIGHT	:	175.00	50.90

Index Size (in) = 0.50
Number of Indexes Specified = 22
Number of Indexes Completed = 22

	Time	Date
Scan Started	04:39:08.049	03/19/05
Scan Completed	04:40:47.314	03/19/05

Robot Operator Signature [signature] DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-145-168

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	145.00	58.30
TOP RIGHT	:	168.25	58.30
BOTTOM LEFT	:	145.00	50.70
BOTTOM RIGHT	:	168.25	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 73
Number of Indexes Completed = 73

	Time	Date
Scan Started	04:42:36.755	03/19/05
Scan Completed	04:48:21.466	03/19/05

Robot Operator Signature Michael J Bentley Jr DATE 3-19-05

PARAGON Operator Signature Karen L Sears DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-135-145

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	135.50	58.30
TOP RIGHT	:	145.00	58.30
BOTTOM LEFT	:	135.50	57.30
BOTTOM RIGHT	:	145.00	57.30

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	04:51:34.764	03/19/05
Scan Completed	04:52:50.746	03/19/05

Robot Operator Signature Michael J Graham Jr DATE 3-19-05

PARAGON Operator Signature Karlon P Sain DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-127-135

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	127.00	58.30
TOP RIGHT	:	135.50	58.30
BOTTOM LEFT	:	127.00	50.70
BOTTOM RIGHT	:	135.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 28
Number of Indexes Completed = 28

	Time	Date
Scan Started	04:54:28.286	03/19/05
Scan Completed	04:56:38.327	03/19/05

Robot Operator Signature Michael J. [signature], JR DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ______________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-120-127

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	120.00	58.30
TOP RIGHT	:	127.00	58.30
BOTTOM LEFT	:	120.00	52.10
BOTTOM RIGHT	:	127.00	52.10

Index Size (in) = 0.50
Number of Indexes Specified = 23
Number of Indexes Completed = 23

	Time	Date
Scan Started	04:58:12.375	03/19/05
Scan Completed	04:59:41.882	03/19/05

Robot Operator Signature Michael J. Jarvis, Jr. DATE 3-19-05

PARAGON Operator Signature Karl Klein DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-109-120

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	109.25	58.30
TOP RIGHT	:	120.00	58.30
BOTTOM LEFT	:	109.25	50.70
BOTTOM RIGHT	:	120.00	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 35
Number of Indexes Completed = 35

	Time	Date
Scan Started	05:01:00.722	03/19/05
Scan Completed	05:03:42.179	03/19/05

Robot Operator Signature Michael J. Graham DATE 3-19-05

PARAGON Operator Signature Karen L. Sain DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-102-109

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	102.00	58.30
TOP RIGHT	:	109.25	58.30
BOTTOM LEFT	:	102.00	52.70
BOTTOM RIGHT	:	109.25	52.70

Index Size (in) = 0.50
Number of Indexes Specified = 24
Number of Indexes Completed = 24

	Time	Date
Scan Started	05:05:07.361	03/19/05
Scan Completed	05:06:41.001	03/19/05

Robot Operator Signature Michael J. Brubry Jr. DATE 3-19-05

PARAGON Operator Signature Karla L. Simon DATE 3-19-05

Comments ______________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-71-102

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	71.50	58.30
TOP RIGHT	:	102.00	58.30
BOTTOM LEFT	:	71.50	50.70
BOTTOM RIGHT	:	102.00	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 95
Number of Indexes Completed = 95

	Time	Date
Scan Started	05:08:26.513	03/19/05
Scan Completed	05:15:50.793	03/19/05

Robot Operator Signature Michael J Snuber Jr DATE 3-18-05

PARAGON Operator Signature Karl R Simon DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-62-71

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	62.00	58.30
TOP RIGHT	:	71.50	58.30
BOTTOM LEFT	:	62.00	55.60
BOTTOM RIGHT	:	71.50	55.60

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	05:18:02.908	03/19/05
Scan Completed	05:19:34.540	03/19/05

Robot Operator Signature Michael J. Erbaugh DATE 3-19-05

PARAGON Operator Signature Kenneth Lewis DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-44-62

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION	AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT :	44.50	58.30
TOP RIGHT :	62.00	58.30
BOTTOM LEFT :	44.50	50.70
BOTTOM RIGHT :	62.00	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 55
Number of Indexes Completed = 55

	Time	Date
Scan Started	05:20:56.997	03/19/05
Scan Completed	05:25:11.919	03/19/05

Robot Operator Signature [signature] DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ____________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-35-44

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	35.00	58.30
TOP RIGHT	:	44.50	58.30
BOTTOM LEFT	:	35.00	57.30
BOTTOM RIGHT	:	44.50	57.30

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	05:26:54.434	03/19/05
Scan Completed	05:28:10.725	03/19/05

Robot Operator Signature Michael J Graham Jr DATE 3-19-05

PARAGON Operator Signature Karen L Lewis DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-28-35

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	28.00	58.30
TOP RIGHT	:	35.00	58.30
BOTTOM LEFT	:	28.00	50.70
BOTTOM RIGHT	:	35.00	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 23
Number of Indexes Completed = 23

	Time	Date
Scan Started	05:29:19.349	03/19/05
Scan Completed	05:31:03.222	03/19/05

Robot Operator Signature Michael J Brubaker DATE 3-A-05

PARAGON Operator Signature Karen P Sam DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-18-28

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	18.50	58.30
TOP RIGHT	:	28.00	58.30
BOTTOM LEFT	:	18.50	55.60
BOTTOM RIGHT	:	28.00	55.60

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	05:32:30.429	03/19/05
Scan Completed	05:34:03.651	03/19/05

Robot Operator Signature Michael J. Burke, Jr. DATE 3-19-05

PARAGON Operator Signature Karen L. Simon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ...................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-329-18

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION	AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT :	329.75	58.30
TOP RIGHT :	378.50	58.30
BOTTOM LEFT :	329.75	50.70
BOTTOM RIGHT :	378.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 152
Number of Indexes Completed = 152

	Time	Date
Scan Started	05:36:17.293	03/19/05
Scan Completed	05:52:29.654	03/19/05

Robot Operator Signature [signature] DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ~~Scan 44-50 had lift off rescan 3 times~~ ~~Good results~~ SJJ 5-31-05

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-322-329

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	322.50	58.30
TOP RIGHT	:	329.75	58.30
BOTTOM LEFT	:	322.50	52.10
BOTTOM RIGHT	:	329.75	52.10

Index Size (in) = 0.50
Number of Indexes Specified = 24
Number of Indexes Completed = 24

	Time	Date
Scan Started	05:54:33.086	03/19/05
Scan Completed	05:56:12.876	03/19/05

Robot Operator Signature Michael J Graham Jr DATE 3-19-05

PARAGON Operator Signature Karlen R Sain DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-314-322

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	314.50	58.30
TOP RIGHT	:	322.50	58.30
BOTTOM LEFT	:	314.50	50.70
BOTTOM RIGHT	:	322.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 26
Number of Indexes Completed = 26

	Time	Date
Scan Started	05:57:50.383	03/19/05
Scan Completed	05:59:51.640	03/19/05

Robot Operator Signature Michael J Grubbs II DATE 3-19-05

PARAGON Operator Signature Karen R Lewis DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-305-314

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	305.00	58.30
TOP RIGHT	:	314.50	58.30
BOTTOM LEFT	:	305.00	57.30
BOTTOM RIGHT	:	314.50	57.30

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	06:02:49.187	03/19/05
Scan Completed	06:04:06.228	03/19/05

Robot Operator Signature Michael J Gruber JR DATE 3-19-05

PARAGON Operator Signature Kaelan R Lewis DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-298-305

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	298.00	58.30
TOP RIGHT	:	305.00	58.30
BOTTOM LEFT	:	298.00	50.70
BOTTOM RIGHT	:	305.00	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 23
Number of Indexes Completed = 23

	Time	Date
Scan Started	06:05:22.944	03/19/05
Scan Completed	06:08:38.324	03/19/05

Robot Operator Signature Michael J Dunbar JR DATE 3-19-05

PARAGON Operator Signature Karla R Lawson DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-288-298

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION	AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT :	288.50	58.30
TOP RIGHT :	298.00	58.30
BOTTOM LEFT :	288.50	55.60
BOTTOM RIGHT :	298.00	55.60

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	06:10:05.798	03/19/05
Scan Completed	06:11:37.406	03/19/05

Robot Operator Signature Michael J. [signature] Jr DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments Sweep 8-9 lift off rescan 3 times
Same result

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-281-288

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	281.25	58.30
TOP RIGHT	:	288.50	58.30
BOTTOM LEFT	:	281.25	50.70
BOTTOM RIGHT	:	288.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 24
Number of Indexes Completed = 24

	Time	Date
Scan Started	06:13:22.260	03/19/05
Scan Completed	06:16:22.935	03/19/05

Robot Operator Signature Michael J Graham Jr DATE 3-19-05

PARAGON Operator Signature Kenneth A Sim DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-274-281

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	274.50	58.30
TOP RIGHT	:	281.25	58.30
BOTTOM LEFT	:	274.50	50.90
BOTTOM RIGHT	:	281.25	50.90

Index Size (in) = 0.50
Number of Indexes Specified = 22
Number of Indexes Completed = 22

	Time	Date
Scan Started	06:17:39.667	03/19/05
Scan Completed	06:19:18.808	03/19/05

Robot Operator Signature Michael J Gabry Jr DATE 3-19-05

PARAGON Operator Signature Karlen R Lam DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-235-274

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	235.00	58.30
TOP RIGHT	:	274.50	58.30
BOTTOM LEFT	:	235.00	50.70
BOTTOM RIGHT	:	274.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 123
Number of Indexes Completed = 123

	Time	Date
Scan Started	06:20:58.023	03/19/05
Scan Completed	06:31:52.890	03/19/05

Robot Operator Signature Michael J Graham, Jr DATE 3-19-05

PARAGON Operator Signature Karen L Simon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-225-235

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	225.50	58.30
TOP RIGHT	:	235.00	58.30
BOTTOM LEFT	:	225.50	57.30
BOTTOM RIGHT	:	235.00	57.30

Index Size (in) = 0.50
Number of Indexes Specified = 31
Number of Indexes Completed = 31

	Time	Date
Scan Started	06:34:36.571	03/19/05
Scan Completed	06:35:52.861	03/19/05

Robot Operator Signature Michael J Graber, II DATE 3-19-05

PARAGON Operator Signature Karlan R Sims DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-199-225

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	199.25	58.30
TOP RIGHT	:	225.50	58.30
BOTTOM LEFT	:	199.25	50.70
BOTTOM RIGHT	:	225.50	50.70

Index Size (in) = 0.50
Number of Indexes Specified = 82
Number of Indexes Completed = 82

	Time	Date
Scan Started	06:37:59.835	03/19/05
Scan Completed	06:44:32.380	03/19/05

Robot Operator Signature Michael J Burbage SR DATE 3-19-05

PARAGON Operator Signature Paul L Simon DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PERPENDICULAR SCAN

Scan Data File Name = W5-PRP-191-199

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	MERIDINAL (DEGREES)
TOP LEFT	:	191.25	58.30
TOP RIGHT	:	199.25	58.30
BOTTOM LEFT	:	191.25	52.70
BOTTOM RIGHT	:	199.25	52.70

Index Size (in) = 0.50
Number of Indexes Specified = 26
Number of Indexes Completed = 26

	Time	Date
Scan Started	06:49:08.943	03/19/05
Scan Completed	06:50:50.731	03/19/05

Robot Operator Signature Michael J Suba, II DATE 3-19-05

PARAGON Operator Signature Karlen R Sims DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ....DUKE POWER
SITE ....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .................WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-61-72

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION	MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT :	58.30	61.00
TOP RIGHT :	58.30	72.50
BOTTOM LEFT :	53.10	61.00
BOTTOM RIGHT :	53.10	72.50

Index Size (in) = 0.50
Number of Indexes Specified = 18
Number of Indexes Completed = 18

	Time	Date
Scan Started	09:15:48.429	03/19/05
Scan Completed	09:17:41.452	03/19/05

Robot Operator Signature [signature] DATE 3-19-05

PARAGON Operator Signature [signature] DATE 3-19-05

Comments ______________________________

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-34-46

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	34.40
TOP RIGHT	:	58.30	46.00
BOTTOM LEFT	:	54.30	34.40
BOTTOM RIGHT	:	54.30	46.00

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	09:26:52.303	03/19/05
Scan Completed	09:28:25.210	03/19/05

Robot Operator Signature Michael J. Graham, JR DATE 3-19-05

PARAGON Operator Signature Karla B. Simon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-17-34

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	17.60
TOP RIGHT	:	58.30	34.40
BOTTOM LEFT	:	52.00	17.60
BOTTOM RIGHT	:	52.00	34.40

Index Size (in) = 0.50
Number of Indexes Specified = 21
Number of Indexes Completed = 21

	Time	Date
Scan Started	09:35:15.029	03/19/05
Scan Completed	09:38:24.061	03/19/05

Robot Operator Signature Michael G Grubbs, JR DATE 3-19-05

PARAGON Operator Signature Karla B Simon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-287-304

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	287.50
TOP RIGHT	:	58.30	304.25
BOTTOM LEFT	:	52.70	287.50
BOTTOM RIGHT	:	52.70	304.25

Index Size (in) = 0.50
Number of Indexes Specified = 19
Number of Indexes Completed = 19

	Time	Date
Scan Started	09:56:20.263	03/19/05
Scan Completed	09:59:06.144	03/19/05

Robot Operator Signature Michael J Hanley Jr DATE 3-19-05

PARAGON Operator Signature Karlan L Simon DATE 3/19/05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-304-316

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	304.25
TOP RIGHT	:	58.30	316.00
BOTTOM LEFT	:	55.00	304.25
BOTTOM RIGHT	:	55.00	316.00

Index Size (in) = 0.50
Number of Indexes Specified = 12
Number of Indexes Completed = 12

	Time	Date
Scan Started	09:49:45.735	03/19/05
Scan Completed	09:51:03.814	03/19/05

Robot Operator Signature Michael J Graber, JR DATE 3-19-05

PARAGON Operator Signature Kevin R Lenon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-224-236

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	224.00
TOP RIGHT	:	58.30	236.25
BOTTOM LEFT	:	54.30	224.00
BOTTOM RIGHT	:	54.30	236.25

Index Size (in) = 0.50
Number of Indexes Specified = 14
Number of Indexes Completed = 14

	Time	Date
Scan Started	10:19:19.611	03/19/05
Scan Completed	10:20:52.765	03/19/05

Robot Operator Signature Michael J Graham, II DATE 3-19-05

PARAGON Operator Signature Kaden R Lemon DATE 3-19-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER .....DUKE POWER
SITE .....McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE .....WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W01

Weld and Scan Type = HEAD CIRCUMFERENTIAL PARALLEL SCAN

Scan Data File Name = W5-PAR-134-146a

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		MERIDINAL (DEGREES)	AZIMUTH (DEGREES)
TOP LEFT	:	58.30	134.00
TOP RIGHT	:	58.30	146.30
BOTTOM LEFT	:	53.40	134.00
BOTTOM RIGHT	:	53.40	146.30

Index Size (in) = 0.50
Number of Indexes Specified = 17
Number of Indexes Completed = 17

	Time	Date
Scan Started	11:09:02.186	03/19/05
Scan Completed	11:11:24.575	03/19/05

Robot Operator Signature [signature] DATE 3/19/05

PARAGON Operator Signature [signature] DATE 3/19/05

Comments W5-PAR-134-146a [signature] 5-31-05
OK

REQUEST RELIEF 05-MN-003

ATTACHMENT 3

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ATTACHMENT 3

WesDyne International
Reactor Vessel Weld Results Summary

McGUIRE UNIT 2

WELD NO.	2RPV-W15-SE (B05.010.005-5A) 2NC2F-1-1 (B05.130-001-1A)	DESCRIPTION	Outlet Nozzle DM Weld @ 22°

LIMITATIONS NO [ ] YES [X] COVERAGE = 84.38%

RESULTS NI [X] RI [ ]

NO. OF INDICATIONS 0

STATUS N/A

EXAM DOCUMENTATION	INDICATION DOCUMENTATION
[X] ANALYSIS LOG	[ ] ASSESSMENT SHEET
[X] ACQUISITION LOG	[ ] PARAGON HARD COPY
[X] SCAN PRINTOUT	[ ] OTHER (specify)
[X] COVERAGE BREAKDOWN	

WESDYNE ANALYST

McGUIRE UNIT 2

RPV COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS CCW/CW

PERP. SCANS UP/DN

WELD DESCRIPTION **OUTLET NOZZLE TO SHELL WELD @ 22°**

WELD NO. **2RPV-W15-SE & 2NC2F-1-1**

BEAM ANGLES

BEAM DIRECTION	45 ° L Dual		45° L Single		45° Shear					
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	* 68.75	* 68.75	* 100	*100						
CW	* 68.75	* 68.75								
IN	100	100								
OUT	100	100								
UT Coverage = 84.38% Combined Coverage (UT & ET) = 100%	* Circ scans limited as per procedure PDQs due to ID Counterbore and Root configuration. Limitation area from 123.8" to 124.6" from 0° to 44° and 122.95" to 124.38" from 70° to 248° and 285° to 360°. ET used to supplement exam for full coverage.									

ANALYST 

WESDYNE INTERNATIONAL

ANALYSIS LOG # W15-1

								Disk No:	N/A
Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16		
Procedure No:	PDI-ISI-254-SE							Procedure Rev. No.:	2
Weld No:	2RPV-W15-SE, 2NC2F-1-1			Weld Type:	DM			Exam. Surface:	ID
Applicable Sensitivity Calibration Data Sheet No:	SE-01			Acquisition Log No:	W15-1			PARAGON Anal. Release:	6.1.3
UT Examiner Signature:						Level:	II	Date:	03/18/05

Data File Name	UT Channel No.	Beam Angle / Beam Direction (In or out, CW or CCW)	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN22-SE-PAR-DET-ON	1	70L CCW	X			DN / 03/18/05
WN22-SE-PAR-DET-ON	2	70L CW	X			DN / 03/18/05
WN22-SE-PRP-DET-ON	1	70L IN	X			DN / 03/18/05
WN22-SE-PRP-DET-ON	2	70L OUT	X			DN / 03/18/05

WESDYNE INTERNATIONAL

Form 12.5: ET Analysis Log

Disk No:

Utility: Duke Power	Plant: McGuire	Unit: 2	Outage: 2EOC16
Procedure No: WDI-STD-146		Procedure Rev. No.: 3	
Weld No. 2RPV-W15-SE / 2NC2F-1-1	Weld Type: Safe End		
Applicable Sensitivity Calibration Data Sheet No: ET-1		Acquisition Log No: W-15-1	
ET Examiner Signature: CSW cl KWff Level III		Date: 3-19-05	

Data File Name	ET Probe No.	ET Probe Scan Direction [Axial/Circ.]	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN22SEPARDETON	4	CIRC	X			CSW / 3-19-05

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG # W15-1

Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16
Procedure No:	PDI-ISI-254-SE					Procedure Rev. No.:	2
Applicable Sensitivity Calibration Data Sheet No:	SE-01						
UT Examiner Signature:				Level:	II	Date:	03/18/05

Data File Name	Weld No.	Index Start	Scan Start	Total # of Sweeps	'AVE' Signal Amplitude	Gain Adj. (dB)	Operator Initials	Date (mm/dd/yy)	Time	Comments
WN22-SE-PAR-DET-ON	2RPV-W15-SE 2NC2F-1-1	122	0°	69	7	0	RAB	03/18/05	1805	
WN22-SE-PAR-DET-ON	2RPV-W15-SE 2NC2F-1-1	122	0°	69	7	0	RAB	03/18/05	1805	
WN22-SE-PRP-DET-ON	2RPV-W15-SE 2NC2F-1-1	0°	109.98	373	10	0	RAB	03/18/05	1936	
WN22-SE-PRP-DET-ON	2RPV-W15-SE 2NC2F-1-1	0°	109.98	373	10	0	RAB	03/18/05	1936	

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W15-SE

Weld and Scan Type = NOZZLE SAFE END PARALLEL SCAN

Scan Data File Name = WN22-SE-PAR-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		DEPTH (IN)	AZIMUTH (DEGREES)
START CW	:	122.00	179.90
END CCW	:	122.00	-179.90
START CW	:	127.50	179.90
END CCW	:	127.50	-179.90

Index Size (in) = 0.08
Number of Indexes Specified = 70
Number of Indexes Completed = 70

	Time	Date
Scan Started	18:05:09.685	03/18/05
Scan Completed	19:22:27.207	03/18/05

Robot Operator Signature Dongchan Ryu DATE 03-18-05

PARAGON Operator Signature Eddie L Brantley DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W15-SE

Weld and Scan Type = NOZZLE SAFE END PERPENDICULAR SCAN

Scan Data File Name = WN22-SE-PRP-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	DEPTH (IN)
START CW	:	179.90	109.98
END CCW	:	-179.90	109.98
START CW	:	179.90	125.50
END CCW	:	-179.90	125.50

Index Size (in) = 0.24
Number of Indexes Specified = 373
Number of Indexes Completed = 373

	Time	Date
Scan Started	19:37:05.063	03/18/05
Scan Completed	20:17:38.425	03/18/05

Robot Operator Signature Dongchan . Ryu DATE 03-18-05

PARAGON Operator Signature David Brantley DATE 3-18-05

Comments _____

REQUEST RELIEF 05-MN-003

ATTACHMENT 4

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ATTACHMENT 4

WesDyne International
Reactor Vessel Weld Results Summary

McGUIRE UNIT 2

WELD NO.	2RPV-W17-SE (B05.010.007-7A) 2NC2F-3-1 (B05.130-009-9A)	DESCRIPTION	Outlet Nozzle DM Weld @ 202°

LIMITATIONS NO [ ] YES [X] COVERAGE = 80.24%

RESULTS NI [X] RI [ ]

NO. OF INDICATIONS 0

STATUS N/A

EXAM DOCUMENTATION	INDICATION DOCUMENTATION
[X] ANALYSIS LOG	[ ] ASSESSMENT SHEET
[X] ACQUISITION LOG	[ ] PARAGON HARD COPY
[X] SCAN PRINTOUT	[ ] OTHER (specify)
[X] COVERAGE BREAKDOWN	

WESDYNE ANALYST

McGuire Unit 2

RPV COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS CCW/CW

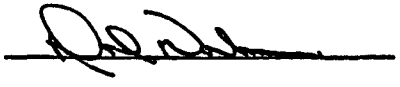
PERP. SCANS IN/OUT

WELD DESCRIPTION OUTLET NOZZLE DM WELDS @ 202°

WELD NO. 2RPV-W17-SE & 2NC2F-3-1

BEAM ANGLES

BEAM DIRECTION	45° L Dual		45° L Single		45° Shear					
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	* 60.48	* 60.48	* 100	* 100						
CW	* 60.48	* 60.48								
IN	100	100								
OUT	100	100								
UT Coverage = 80.24% Combined Coverage (UT & ET) = 100%	* Circ scans limited as per procedure PDQs due to ID Counterbore and Root configuration. Limitation area from 122.2" to 124.0" from 0° to 193° and 225° to 300° and 332° to 360° . ET used to supplement exam for full coverage.									

ANALYST 

WESDYNE INTERNATIONAL

ANALYSIS LOG # W17-1

Disk No:	N/A

Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16
Procedure No:	PDI-ISI-254-SE					Procedure Rev. No.:	2
Weld No:	2RPV-W17-SE, 2NC2F-3-1	Weld Type:	DM			Exam. Surface:	ID
Applicable Sensitivity Calibration Data Sheet No:	SE-01	Acquisition Log No:	W17-1			PARAGON Anal. Release:	6.1.3
UT Examiner Signature:				Level:	II	Date:	03/18/05

Data File Name	UT Channel No.	Beam Angle / Beam Direction [In or out, CW or CCW]	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN2O2-SE-PAR-DET-ON	1	70 CCW	X			CSW / 03/18/05
WN2O2-SE-PAR-DET-ON	2	70 CW	X			CSW / 03/18/05
WN2O2-SE-PRP-DET-ON	1	70 IN	X			CSW / 03/18/05
WN2O2-SE-PRP-DET-ON	2	70 OUT	X			CSW / 03/18/05

WESDYNE INTERNATIONAL

Form 12.5: ET Analysis Log W17-1

Disk No: N/A

Utility: DUKE POWER	Plant: McGUIRE	Unit: 2	Outage: 2EOC16
Procedure No: WDI-STD-148		Procedure Rev. No.: 3	
Weld No. 2RPV-W17-SE, 2NC2F-3-1	Weld Type: SAFE END		
Applicable Sensitivity Calibration Data Sheet No: ET-1		Acquisition Log No: W17-1	
ET Examiner Signature: Level II		Date: 03/18/05	

Data File Name	ET Probe No.	ET Probe Scan Direction [Axial/Circ.]	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN202-SE-PAR-DON	4	CIRC	X			CSW / 03/18/05

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG # W17-1

Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16
Procedure No:	PDI-ISI-254-SE					Procedure Rev. No.:	2
Applicable Sensitivity Calibration Data Sheet No:	SE-01						
UT Examiner Signature:				Level:	II	Date:	03/18/05

Data File Name	Weld No.	Index Start	Scan Start	Total # of Sweeps	'AVE' Signal Amplitude	Gain Adj. (dB)	Operator Initials	Date (mm/dd/yy)	Time	Comments
WN202-SE-PRP-DET-ON	2RPV-W17-SE 2NC2F-3-1	0	109.98°	373	9	0	DS	03/18/05	0956	
WN202-SE-PRP-DET-ON	2RPV-W17-SE 2NC2F-3-1	0	109.98°	373	10	0	DS	03/18/05	0956	
WN202-SE-PAR-DET-ON	2RPV-W17-SE 2NC2F-3-1	122	0	70	7	0	DS	03/18/05	1251	
WN202-SE-PAR-DET-ON	2RPV-W17-SE 2NC2F-3-1	122	0	70	8	0	DS	03/18/05	1251	

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W17-SE

Weld and Scan Type = NOZZLE SAFE END PERPENDICULAR SCAN

Scan Data File Name = WN202-SE-PRP-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	DEPTH (IN)
START CW	:	179.90	109.98
END CCW	:	-179.90	109.98
START CW	:	179.90	125.50
END CCW	:	-179.90	125.50

Index Size (in) = 0.24
Number of Indexes Specified = 373
Number of Indexes Completed = 373

	Time	Date
Scan Started	09:16:04.009	03/18/05
Scan Completed	09:56:52.425	03/18/05

Robot Operator Signature _____ DATE 03-18-05

PARAGON Operator Signature _____ DATE 3-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W17-SE

Weld and Scan Type = NOZZLE SAFE END PARALLEL SCAN

Scan Data File Name = WN202-SE-PAR-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		DEPTH (IN)	AZIMUTH (DEGREES)
START CW	:	122.00	179.90
END CCW	:	122.00	-179.90
START CW	:	127.50	179.90
END CCW	:	127.50	-179.90

Index Size (in) = 0.08
Number of Indexes Specified = 70
Number of Indexes Completed = 70

	Time	Date
Scan Started	11:33:48.077	03/18/05
Scan Completed	12:51:05.710	03/18/05

Robot Operator Signature Carl J. Nilan DATE 03-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments _____

REQUEST RELIEF 05-MN-003

ATTACHMENT 5

PAGES 1-7

ATTACHMENT 5

WesDyne International
Reactor Vessel Weld Results Summary

McGUIRE UNIT 2

WELD NO.	2RPV-W18-SE (B05.010.008-8A) 2NC2F-4-1 (B05.130-013-13A)	DESCRIPTION	Outlet Nozzle DM Weld @ 338°

LIMITATIONS NO [ ] YES [X] COVERAGE = 83.34%

RESULTS NI [X] RI [ ]

NO. OF INDICATIONS 0

STATUS N/A

EXAM DOCUMENTATION		INDICATION DOCUMENTATION	
[X]	ANALYSIS LOG	[ ]	ASSESSMENT SHEET
[X]	ACQUISITION LOG	[ ]	PARAGON HARD COPY
[X]	SCAN PRINTOUT	[ ]	OTHER (specify)
[X]	COVERAGE BREAKDOWN		

WESDYNE ANALYST S. D. Scott

McGuire Unit 2

RPV COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS CCW/CW
PERP. SCANS IN / OUT

WELD DESCRIPTION OUTLET NOZZLE DM WELDS @ 338°

WELD NO. 2RPV-W18-SE & 2NC2F-4-1

BEAM ANGLES

BEAM DIRECTION	45° L Dual		45° L Single		45° Shear					
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	* 66.67	* 66.67	* 100	* 100						
CW	* 66.67	* 66.67								
UP	100	100								
DOWN	100	100								
Combined Average = 83.34%	* Circ scans limited as per procedure PDQs due to ID Counterbore and Root configuration. Limitation area from 123.0" to 124.6" from 0° to 270°. ET used to supplement exam for full coverage.									

ANALYST 

WESDYNE INTERNATIONAL

ANALYSIS LOG # W18-1

								Disk No:	N/A
Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16		
Procedure No:	PDI-ISI-254-SE							Procedure Rev. No.:	2
Weld No:	2RPV-W18-SE, 2NC2F-4-1			Weld Type:	DM			Exam. Surface:	ID
Applicable Sensitivity Calibration Data Sheet No:	SE-01			Acquisition Log No:	W18-1			PARAGON Anal. Release:	6.1.3
UT Examiner Signature:						Level:	II	Date:	03/18/05

Data File Name	UT Channel No.	Beam Angle / Beam Direction [In or out, CW or CCW]	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN338-SE-PRP-DET-ON	1	70 IN	X			DN / 03/18/05
WN338-SE-PRP-DET-ON	2	70 OUT	X			DN / 03/18/05
WN338-SE-PAR-DET-ON	1	70 CCW	X			CSW / 03/18/05
WN338-SE-PAR-DET-ON	2	70 CW	X			CSW / 03/18/05

WESDYNE INTERNATIONAL

Form 12.5: ET Analysis Log

Disk No: N/A

Utility: DUKE POWER	Plant: McGUIRE	Unit: 2	Outage: 2EOC16
Procedure No: WDI-STD-148		Procedure Rev. No.: 3	
Weld No. 2RPV-W18-SE, 2NC2F-4-1	Weld Type: SAFE END		
Applicable Sensitivity Calibration Data Sheet No: ET-1		Acquisition Log No: W18-1	
ET Examiner Signature: [signature]	Level II	Date: 03/18/05	

Data File Name	ET Probe No.	ET Probe Scan Direction [Axial/Circ.]	NI	RI	RI Resolution / Comments / Limitations	Examiner ID / Date
WN338-SE-PAR-DON	4	CIRC	X			FSV / 03/18/05

WESDYNE INTERNATIONAL

DATA ACQUISITION LOG # W18-1

Utility:	DUKE POWER	Plant:	McGUIRE	Unit:	2	Outage:	2EOC16
Procedure No:	PDI-ISI-254-SE					Procedure Rev. No.:	2
Applicable Sensitivity Calibration Data Sheet No:	SE-01						
UT Examiner Signature:				Level:	II	Date:	03/18/05

Data File Name	Weld No.	Index Start	Scan Start	Total # of Sweeps	'AVE' Signal Amplitude	Gain Adj. (dB)	Operator Initials	Date (mm/dd/yy)	Time	Comments
PRE-SE-PRP-DET-ON	2RPV-W18-SE 2NC2F-4-1	109.98	0°	6	8	0	RSB	03/18/05	0318	
PRE-SE-PRP-DET-ON	2RPV-W18-SE 2NC2F-4-1	109.98	0°	6	7	0	RSB	03/18/05	0318	
WN338-SE-PRP-DET-ON	2RPV-W18-SE 2NC2F-4-1	109.98	0°	372	9	0	RSB	03/18/05	0327	
WN338-SE-PRP-DET-ON	2RPV-W18-SE 2NC2F-4-1	109.98	0°	372	8	0	RSB	03/18/05	0327	
WN338-SE-PAR-DET-ON	2RPV-W18-SE 2NC2F-4-1	122	0°	70	8	0	DS	03/18/05	1718	
WN338-SE-PAR-DET-ON	2RPV-W18-SE 2NC2F-4-1	122	0°	70	9	0	DS	03/18/05	1718	

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W18-SE

Weld and Scan Type = NOZZLE SAFE END PERPENDICULAR SCAN

Scan Data File Name = WN338-SE-PRP-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		AZIMUTH (DEGREES)	DEPTH (IN)
START CW	:	179.90	109.98
END CCW	:	-179.90	109.98
START CW	:	179.90	125.50
END CCW	:	-179.90	125.50

Index Size (in) = 0.24
Number of Indexes Specified = 373
Number of Indexes Completed = 373

	Time	Date
Scan Started	03:28:13.495	03/18/05
Scan Completed	04:09:32.872	03/18/05

Robot Operator Signature Dongchan Ryu DATE 03-18-05

PARAGON Operator Signature Rose L Bantley DATE 03-18-05

Comments _____

WesDyne International
Reactor Vessel Inservice Examination
Scan Parameter Execution

CUSTOMER ..... DUKE POWER
SITE ..... McGUIRE UNIT #2
OUTAGE 2EOC16
VESSEL TYPE ..... WESTINGHOUSE 4-LOOP

WELD IDENTIFICATION - 2RPV-W18-SE

Weld and Scan Type = NOZZLE SAFE END PARALLEL SCAN

Scan Data File Name = WN338-SE-PAR-DET-ON

SCAN AREA PER THE ORIGINAL TECHNIQUES

UDRPS SCAN AREA DEFINITION		DEPTH (IN)	AZIMUTH (DEGREES)
START CW	:	122.00	179.90
END CCW	:	122.00	-179.90
START CW	:	127.50	179.90
END CCW	:	127.50	-179.90

Index Size (in) = 0.08
Number of Indexes Specified = 70
Number of Indexes Completed = 70

	Time	Date
Scan Started	16:00:53.375	03/18/05
Scan Completed	17:18:10.654	03/18/05

Robot Operator Signature Carlo J. Miller DATE 03-18-05

PARAGON Operator Signature [signature] DATE 3-18-05

Comments _____