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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

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Sheet 1 of 2

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lder	tified (		ions fo	or Coa	ated ar	id Un	coated	Surf	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes,	Me crac		Me corros discolo , we no co	sion, ration ar,	Bliste (coa		Chec (coat		Crac (coat		(coa	king ting)	stai	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Torus Bay 1 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 2 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 3 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	Х	N/A	X	N/A	See page 2
Torus Bay 4 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 5 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 6 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 7 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 8 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 9 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 10	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 11 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 12 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 13 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 14 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	X	N/A
Torus Bay 15 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Torus Bay 16 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A

Note: The above components are ASME Category E-A, Item Number E1.11. This examination was performed above the waterline only. Refer to drawings 6202-200 R/1 and 5920-42 R/14 for Torus Bays 1 through 16 interior and exterior.

Examination performed by:	M. P. Dugan	Shipsus	<u> </u>	Date:	04/08
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**Quality Record** 

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#### Torus Bays - Interior

This examination was performed from the top of the Vent header. All accessible interior surfaces above the waterline were observed from this vantage point.

#### Notes:

Bay 3 – Inner Torus wall. There are (3) three areas of coating and primer loss with light corrosion approximately 6" above the water line in the coating that was replaced in 1998.

- 1. One is approximately 18" from the Bay 2 Ring Girder and is approximately 2" x 2".
- 2. The second is approximately 4' from the Bay 2 Ring Girder and is approximately 1" x 2".
- 3. The third is approximately 5' from the Bay 2 Ring Girder and is approximately 4" x 4".

The extent of material loss in these areas is indeterminate visually due to the distance (approximately 15') that the indications must be viewed from. An ultrasonic examination was performed from the Torus OD and no material loss was identified. See Ultrasonic Thickness data sheet # 24-004902-000.

	(	20.7	<b>)</b>	and the second	g on the good to be	en e santan
Examination performed by:	M. P. Dugan	M	1 DUN	<u> </u>	_ Date: _	04/08/2004
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#### ENN NUCLEAR MANAGEMENT MANUAL

# QUALITY RELATED NON-ADMINISTRATIVE PROCEDURE

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ATTACHMENT 9.1	ULTRASONIC THICKNESS EXAMINATION REPORT
Ery town	ULTRASONIC THICKNESS
**Entergy	EXAMINATION REPORT
Component ID TORUS BAY 3 EXTERIOR	Inspection Report No. <u>24-9</u> .05-TOLUS-01
Procedure No. 9.05 Rev. 0 Work Or	der No. <u>1</u> Page <u>/</u> of <u>5</u>
EQUIPMENT DATA	SCANNING METHOD
Instrument:  Manufacturer: PANAMETRICS  Model No. 36 DL PLUS  Serial No. 982016303	☐ Grid
Search Unit: Manufacturer: PANAMETRICS	EXAM SURFACE
Model: <b>D791-RM</b> Freq.: <b>5.0 MHZ</b> Serial No.: <b>39811</b> Size: <b>312</b> "	• □ I.D. ☒ O.D.
Cal Block: S/N No.: A 20/50 (1.500", 7.50", .300")	EXAM SURFACE CONDITION:  SMOTH + PAINTED
Materials:  Couplant: <u>ULTRAGEL IL</u> Batch No.: <u>03/25 J</u>	SPECIAL EQUIPMENT USED:
CALIBRATION DATA	
Actual /.500" .750" .300"	Time/Date + 5% of Initial Calibration
Initial /.500" .750" .300" N	1605 4-29-04 Yes No
Cal Check Cal Check	N N N N A
Final /500" .750" .300" N/A	18 10 4-29-04 YES
Additional Remarks:	Examiner:
GRID POINTS:	Loud & Mart II-R 4-29-04
AREA *1 -> A1 to F6	Name Level Date
AREA *2 -> AI to F18	N/A
	Name Level Date
GRID CIZE -> 2" × 2"	Reviewed By:
	n. M. P. III 4/29/04
	Name Level Date
Additional Info Attached: X Yes No	



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DATA SHEET NO. 24-9.05-TORUS-01 PAGE 2 OF 5

THESE THICKNESS READINGS WERE TAKEN ON THE INNER RING, OD SURFACE OF TORUS BAY 3 AS A RESULT OF AREAS NOTED DURING GENERAL VISUAL EXAMINATION OF THE INTERIOR OF THE TORUS DURING RFO-24. THE LOCATIONS ON THE INTERIOR WALL WERE TRANSPOSED TO THE EXTERIOR AND THE THICKNESSES WERE TAKEN THERE. THERE ARE NO INDICATIONS OF PITTING OR MATERIAL LOSS IN THE IDENTIFIED AREAS. The nominal thickness in the area of interest is .533". The lowest reading found is .597".

THE WATER LEVEL IN THE TORUS WAS IDENTIFIED BY THE OPERATIONS DEPARTMENT AS BEING 11.42' WHEN THE INDICATIONS WERE RECORDED. THICKNESS READINGS WERE TAKEN IN THE LOCATIONS AS SHOWN ON PAGE 2.

Area of interest 1 is 12" by 12"; area of interest 2 is 12" by 36". Both areas are gridded in 2" grids. Each grid was scanned entirely and the lowest reading was recorded.

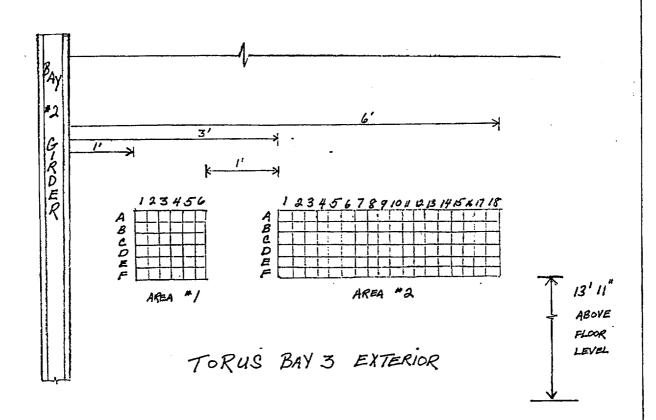
Sonald	Popul II-R	4-29-04
Name	Level	Date
	N/A	
Name	Level	Date

Evaminar(e)

Reviewed By:

Name

#### Report No. 24-9.05-TORUS-01 **Vermont Yankee Piping FAC Inspection** Program PP-7028 RFO 24 Spring 2004 Page <u>3</u> of <u>5</u> (Additional Page to ENN-NDE-9.05 Attachment 9.1) Point 5920-42 Component ID: Tokus BAY 3 Plant Location TORUS AREA 2/3' Sketch No. R/14 EXTERIOR Material CARBON STEEL Size (in) Component: Schedule Nom. Thickness TORUS BAY 3 (in)\_.533" N/A M/A EXTERIOR



- 1) TORUS WATER LEVEL 18 11'5"
- @ AREA \*1 is 12" BY 12"; AREA \*2 IS 12" BY 36".
- 3 GRID SIZE IS 2" BY 2".

Examiner: Ronal P. Maril	Level II-R	Date: 4-29-04
Examiner: NA	Level	Date:
Reviewer: NOA. W LVIII	Level	Date: 4/29/04

# **TORUS BAY 3 (INSIDE SECTION)**

#### **THICKNESS READINGS**

#### **AREA OF INTEREST NO. 1**

	Α	В	С	D	E	F
1	0.611	0.619	0.616	0.617	0.615	0.617
2	0.611	0.616	0.617	0.617	0.614	0.614
3	0.613	0.616	0.612	0.617	0.612	0.613
4	0.612	0.603	0.616	0.612	0.612	0.610
5	0.613	0.598	0.613	0.611	0.612	0.611
6	0.612	0.603	0.617	0.614	0.615	0.615

Min	@	<b>B5</b>	0.598
Max	@	<b>B1</b>	0.619

**Ron Niziol** 

Examiner(s):	P. New JAR	4-29-04	Reviewed By:	TIP	4
Name	Level	Date	Name	Level	Ć
	N/A				a villa in attitution and
Name	Level	Date			

## **TORUS BAY 3 (INSIDE SECTION)**

#### THICKNESS READINGS

#### **AREA OF INTEREST NO. 2**

	Α	В	С	O	E	F
1	0.609	0.611	0.615	0.617	0.620	0.615
2	0.608	0.612	0.620	0.613	0.615	0.614
3	0.610	0.610	0.616	0.611	0.613	0.612
4	0.608	0.612	0.608	0.614	0.611	0.613
5	0.605	0.610	0.611	0.610	0.607	0.606
6	0.604	0.605	0.607	0.607	0.608	0.604
7	0.601	0.605	0.608	0.607	0.606	0.606
8	0.603	0.601	0.610	0.608	0.605	0.606
9	0.603	0.605	0.608	0.609	0.606	0.607
10	0.606	0.605	0.610	0.609	0.606	0.605
11	0.608	0.608	0.608	0.608	0.605	0.602
12	0.605	0.606	0.607	0.606	0.605	0.601
13	0.604	0.607	0.607	0.608	0.608	0.605
14	0.605	0.610	0.611	0.609	0.607	0.605
15	0.606	0.610	0.608	0.610	0.610	0.607
16	0.607	0.610	0.609	0.611	0.611	0.608
17	0.605	0.603	0.607	0.606	0.607	0.605
18	0.600	0.601	0.604	0.604	0.605	0.597

Min @ F18	0.597
Max @ C2 & E1	0.620

**Ron Niziol** 

Examiner(s):	17 Mind IR	4-29-04	Reviewed By:	II	4/29/04
Name	Level	Date	Name	Level	Date
-	NA				
Name	Level	Date			

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, ges, ges,	Me crac		Me corro discolo we no co	sion, ration, ar,		ering ting)		cking ting)	Crac (coa	-		king ting)	1	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-200A Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A
Penetration X-200B Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M. P. Dugan	She	Judy	Date:	04/08/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulç	ges, ges,	Ме сгас		discolo we	sion, oration,		ering iting)	Cheo (coa	king ting)		king ting)	Flai (coa	king ting)	1	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	1
Penetration X-206A Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	Х	Accessed from Torus interior on top of vent system.
Penetration X-206D Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	Accessed from Torus interior on top of vent system.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M. P. Dugan	Shirkan	~	Date:	04/08/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Un	coated	Surfa	aces	•			l
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me	etal king	Me corro discolo we no co	sion, ration, ar,		ering ting)	Cheo (coa	_	Crac (coa	•	1	king ting)		ıst ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-209A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	<b>X</b>	Accessed from Torus interior on top of vent system.
Penetration X-209D Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	Accessed from Torus interior on top of vent system.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by: _	M. P. Dugan	Slep Juan	Date:	04/08/2004

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#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				Ide	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulg gou	Nicks, dents, pits, bulges, gouges, arc strikes		ital king	Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)			Flaking (coating)		ust ning	Other conditions
	Yes	No -	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	⊸No	
Penetration X-210A Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-210B Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	Accessed from Torus interior on top of vent system.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by: _	M. P. Dugan	Shipson	 Date: _	04/08/2004
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**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

	Identified Conditions for Coated and Uncoated Surfaces																
Component Number or Zone Number	Nicks, dents, pits, bulges, gouges, arc strikes		Metal cracking		Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		1	ust ning	Other conditions
	Yes No Yes No Yes No Yes No Yes No	Yes	No	Yes	No	Yes	No										
Penetration <b>X-211A</b> Interior	N/A	X	N/A	x	N/A	x	N/A	x	N/A	X	N/A	x	N/A	x	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-211B Interior	N/A	X	N/A	x	N/A	х	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	Accessed from Torus interior on top of vent system.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

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Examination performed by:	M. P. Dugan	Jul Sun	Date:	04/08/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

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18

Yes = exceeds the recording criteria
No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents bulg goug arc s	, pits, jes, ges,	Me		ntified Me corro discolo we no co	ital sion, iration, ar,	Bliste		Chec	nd Un eking ting)	Crac	Surfa king ting)	Flai	king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-212 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	Accessed from Torus interior on top of vent system.

This penetration is ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M P Dugan	Stephone	Date:	04/08/2004
Examination portonious by:	1717 7 2 3 3 3 3 3 1			

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	dentified Conditions for Coated and Uncoated Surfaces												
Component Number or Zone Number	dents bulg gou arc s	Nicks, dents, pits, bulges, gouges, arc strikes		Metal cracking		Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-214 Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-215 Interior	N/A	X	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	Accessed from Torus interior on top of vent system.
Penetration X-216 Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-217 Interior	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	Accessed from Torus interior on top of vent system.
Penetration X-218 Interior	N/A	х	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-219 Interior	N/A	x	N/A	х	N/A	x	N/A	х	N/A	Х	N/A	X	N/A	Х	N/A	x	Accessed from Torus interior on top of vent system.
Penetration X-220 Interior	N/A	x	N/A	x	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	Ñ/Ä	×	Accessed from Torus interior on top of vent system.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M. P. Dugan	Shy	) sug	Date: _	04/08/2004
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#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me crac	etal king	corro discolo we			ering ting)	Ched (coa	king ting)		king ting)	Flal (coa	king ting)	, Ru stai	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-221 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	· N/A
Penetration X-223 Interior	N/A	X	N/A	Х	N/A	x	N/A	x	N/A	Х	N/A	x	N/A	X	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M. P. Dugan	Shipman	Date:	04/08/2004

**Quality Record** 

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

<u> </u>				lde	ntified	Condi	tions f	or Co	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac		Me corro discolo we no co	sion, oration, ar,	Bliste (coa		Cheo (coa	king ting)	Crac (coa			king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-231 A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	Accessed from inside the Torus from on top the Vent System Heade
Penetration X-231C Interior	N/A	Х	N/A	X	N/A	х	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	x	Accessed from inside the Torus from on top the Vent System Heade
Penetration X-231E Interior	N/A	х	N/A	X	N/A	X	N/A	X	N/A	X	N/A	х	N/A	х	N/A	х	Accessed from inside the Torus from on top the Vent System Heade
Penetration X-231G Interior	N/A	×	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	×	Accessed from inside the Torus from on top the Vent System Heade

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by:	M. P. Dugan	Shipsua	<u></u>	Date:	04/08/2004
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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

	Identified Conditions for Coated and Uncoated Surfaces																
Component Number or Zone Number	Nicks, dents, pits, bulges, gouges, arc strikes		corro discolo , we	Metal orrosion, scoloration , wear, o coating		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions			
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Drywell elevation 238' to 251', 0º to 360º Interior	N/A	X	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	N/A	x	See Note 1

Note: The above components are ASME Category E-A, Item Number E1.11. Refer to drawings 6202-1 R/3 and 6202-2 R/0.

Note 1: Rust staining previously identified in IDR 99-018 in the areas of penetrations X-5G and X-5H is caused by leakage from the Containment Spray header nozzles on elevation 252'. The staining is from rusted conduit and unistrut that has run down the wall to elevation 238'. The coating in the area of the rust stain is intact. There are general areas of localized missing coating where the primer is intact. This staining is not recent as evidenced by no staining appearing on the Drywell Moisture Barrier which was replaced in 2001 via MM 2000-010.

Examination performed by: M. P. Dugan

Date:

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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 3

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lder	ntified	Condi	ions f	or Coa	ated a	nd Un	coated	Surf	aces				
Component Number or Zone Number	dents bulq gou	ouges, cracking c strikes		Metal corrosion, discoloration , wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Drywell elevation 251' to 269', 0° to 360° Interior	N/A	X	N/A	X	X	N/A	X	N/A	N/A	X	N/A	X	N/A	X	X	N/A	See attached sheet for description of corrosion, discoloration and blistering. See attached description of inaccessible area.

Note: The above components are ASME Category E-A, Item Number E1.11. Refer to drawings 6202-0001 R/3 and 6202-2 R/0.

Examination performed by:

Date: 04/09/2004

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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

Sheet 2 of 3

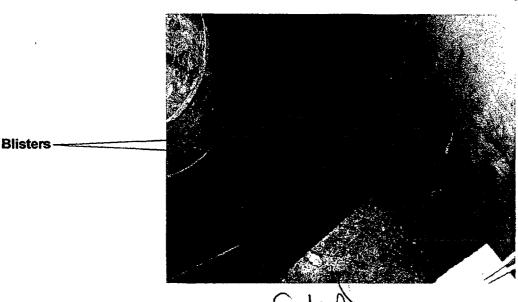
There are areas of corrosion, discoloration and blistering as described below:

MANUAL

1. There are (2) two areas where the coating and primer is missing and the underlying metal is corroded. They are located at approximately the 75° azimuth just below the 251' floor elevation (just to the right of the equipment hatch and penetration X-6). Both areas are approximately 2' long by 1' wide (see photograph below). This condition is caused by leakage from the Containment Spray header nozzles on elevation 252'. The staining is from rusted conduit and unistrut that has run down the wall.



2. There are (2) two blisters located immediately to the left of the indications noted above. One is approximately 3" x 4" the other is approximately 1" x 2" (see attached photographs).



Examination performed by: M. P. Dugan

Date: 04/09/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

Page 3 of 3

The following containment surface locations are inaccessible from the elevation 251' floor to the underside of the elevation 269' floor:

- 1. From approximately the 150° azimuth (3") three feet in the clockwise direction.
- 2. From approximately the 160° azimuth (22.5') twenty two and one half feet in the clockwise direction.
- 3. From approximately the 206° azimuth (3) three feet in the clockwise direction.

This results in a total of (28.5') twenty eight and one half linear feet of the 251' elevation circumference being obstructed by the shielding.

This obstruction is caused by permanently installed shielding on the containment surface

Examination performed by: M. P. Dugan

Date: 04/09/2004

VT-1 partaemens on 4/12/2004

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ATTACHMENT 7.2

#### ENN NUCLEAR MANAGEMENT MANUAL

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IWE GENERAL VISUAL EXAMINATION EVALUATION FORM

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	Sheet 1 of 1
Component Number or Zone Number (*)  Drywell Elevation 251' to 269', 0° to 360°	
Existing Condition Being Evaluated	
Blisters, coating degradation and light corrosion as identified on \ # 24-10.01-IWE-01.	/T-1 data sheet
Evaluation of Existing Condition	
These conditions are acceptable in accordance with the criteria of Standard ENN-EP-S-001 R/0, Sections 5.2, 5.3 and 5.4. Also, the indirectly observed by J. Fitzpatrick of the Mechanical/Structural En and determined to be acceptable as-is.	dications were
The Mechanical/Structural Engineering group has requested that texamined again during RFO-25.	hese areas be
Mechanical/Structural Engineer: J. Fitzpatrick	Date: <u>4/21/1</u> 4
Evaluation Performed By: M. P. Dugan	104
Evaluation Approved By:	en e



#### ENN NUCLEAR MANAGEMENT MANUAL

# QUALITY RELATED NON-ADMINISTRATIVE PROCEDURE

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<b>ATTACHMENT 9.1</b>
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VT-1 EXAMINATION REPORT

Page 1 of 3

Work D	Document	Component Ide	entification		Procedure	9	Report No.
	902-000		tion 251' to 269			-10.01 R/0	24-10.01-IWE-01
<del>-</del>		to 360°		,			
■ Di	irect	Equipment Use	ad		Illuminatio	n Verification	
	emote	Flashlight	30	1	Before	71.8 FC	Character Card VE-28
Li ne	emore	Light Meter S/	או זע פפטב		After	63.3 FC	Character Card ve-20
-		Light Meter of				03.3 FC	
			Reportable	• Cona	itions		
The in	ndications sho	own on page	s 2 and 3 are	e acce	eptable i	n accordan	ce with the criteria
	gineering Star						
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Examin	ned By: (	1	Reviewed By:	1/2	1/	ANII R	eview
				11			
M. P. D	Dugan <u>MW</u>	Bug	D. B. King	P			
Level:	III Date: 4/	12/2004	Level: TI	Date:	ik The	04 Date:	
		· <b>-</b>	ا حرت	(	7-20-0	7	

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#### **Quality Related** Non-Administrative Procedure

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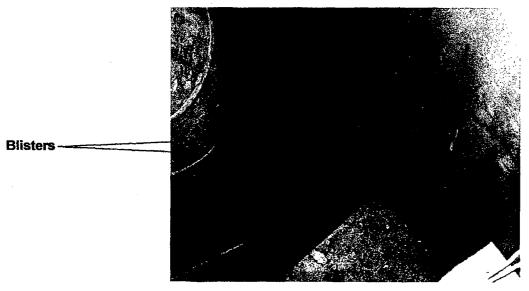
Attachment 9.1

VT-1 Examination Report

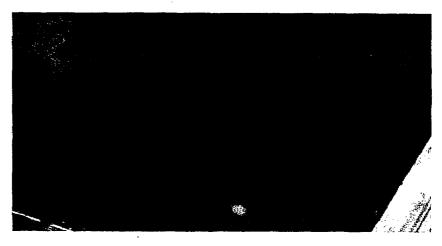
**RFO-24** 

Sheet 2 of 3

The coating was removed on the blisters noted on the General Visual report in order to evaluate the condition underneath. There is some primer loss on the indication on the left. There is no material loss. The primer is intact on indication on the right.



Indications (blisters) prior to removal



Indications (blisters) after paint removal

Examination Performed By: \_\_

M. P. Dugan

Date: 4/12/2004

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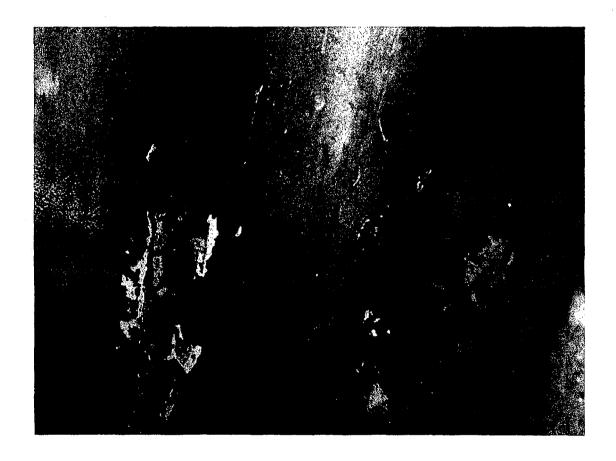
Attachment 9.1

**VT-1 Examination Report** 

**RFO-24** 

Sheet 3 of 3

The areas as shown below and noted on the General Visual report were examined using VT-1 criteria. There are areas of minor corrosion. There is no material loss.



Examination Performed By:

M. P. Dugan

Date:

4/12/2004

#### ENN NUCLEAR MANAGEMENT MANUAL

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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

## **RFO-24**

Sheet 1 of 2

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				Ider	ntified (	Condit	tions f	or Coa	ated a	nd Un	coated	Surf	aces				
Component Number or Zone Number	gou	•	Me crac			sion,		ering ting)	Chec (coa	king ting)	Crac (coa	_	Flak (coa		Ru "stail	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Drywell elevation 269' to 321', 0º to 360º Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	The entire drywell surface has general areas of missing paint. The primer is intact and there are no obvious areas of corrosion. See page 2 for obstructions.

Note: The above components are ASME Category E-A, Item Number E1.11. Refer to drawings 6202-0001 R/3 and 6202-2 R/0.

Examination performed by: _	M. P. Dugan	Shipsun		Date: _	04/14/2004
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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 2 of 2

#### Containment Obstructions - Elevation 269' to 321'

The 269' to 321' elevation containment liner is obstructed by permanent shielding in the following locations:

- 1. From the 180º azimuth clockwise approximately 22' of the containment liner is 100% obstructed between the 269' elevation floor to the 275' elevation. From 22' clockwise from the 180º azimuth for approximately 42' clockwise the containment liner is 100% obstructed from the 269' elevation floor to the bottom of the monorail track.
- 2. From the 180° azimuth counter clockwise approximately 18' the containment liner is 100% obstructed between the 269' elevation floor to the 275' elevation. From 18' counter clockwise from the 180° azimuth for approximately 48' counter clockwise the containment liner is 100% obstructed from the 269' elevation floor to the bottom of the monorail track.

Examination performed by: M. P. Dugan Date: 04/14/2004

# Entergy ENN NUCLEAR MANAGEMENT MANUAL IWE General Visual Containment Inspection

Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 2

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents bulg gougarc s	, pits, jes, ges,	Me		1 '	tal sion,	Blist	or Coa ering ting)	Chec	nd Un king ting)		king	Flai	Flaking Rust		Other conditions	
1	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Drywell Head Interior and Exterior	N/A	X	N/A	х	N/A	X	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	See attached sheet for condition descriptions.

Note: The above components are ASME Category E-A, Item Number E1.11. Refer to drawings 6202-0001 R/3 and 6202-2 R/0.

Examination performed by: M. P. Dugan Date: 04/13/2004

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Attachment 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

Sheet 2 of 2

#### **Interior**

- 1. Coating (paint) is missing from the entire top dollar plate area. The primer is intact and there is no evidence of corrosion.
- 2. From the dollar plate area down to the flange there are large areas of cracking, flaking and missing paint. The primer is intact and there is no evidence of corrosion.

#### **Exterior**

- 1. The lower portion of the outer surface has general small (1" to 2") areas of missing paint. Most appear to be the result of bolting removal and installation. The primer is intact and there is no evidence of corrosion.
- 2. The upper portion of the outer surface has broad areas of paint checking and missing paint. There is no evidence of corrosion staining in the areas of paint checking. There are also general areas of missing primer with light corrosion. There is no evidence of material loss in the areas where the primer is missing.

The conditions listed above are acceptable in accordance with Engineering Standard ENN-EP-S-001, Revision 0, Sections 5.2, 5.3 and 5.4.

Examination performed by: M. P. Dugan Date: 04/13/2004

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General Examination Checklist for Containment Supports

#### **RFO-24**

Yes = exceeds the recording criteria No = does not exceed the recording criteria Sheet 1 of 1

				ld	ent Sup	oorts					
Component Number or Zone Number	irregul - deforr		parts, etc.		Corrosion		redu cro secti ar	ional ea	crad surfac	ear or cklike ce flaws	Comments
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Stabilizer Assembly A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See note 1
Stabilizer Assembly B Interior	N/A	х	N/A	X	N/A	Х	N/A	х	N/A	x	See note 1
Stabilizer Assembly C Interior	N/A	Х	N/A	Х	N/A	X	N/A	х	N/A	х	See note 1
Stabilizer Assembly D Interior	N/A	х	N/A	X	N/A	X	N/A	х	N/A	х	See note 1
Stabilizer Assembly E Interior	N/A	х	N/A	X	N/A	X	N/A	х	N/A	х	See note 1
Stabilizer Assembly F Interior	N/A	х	N/A	X	N/A	X	N/A	х	N/A	х	See note 1
Stabilizer Assembly G Interior	N/A	х	N/A	X	N/A	X	N/A	Х	N/A	X	See note 1
Stabilizer Assembly H Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	х	See note 1

These components are ASME Category E-A, Item Number E1.11. Reference drawing 6202-25 R/O.

Note 1: All Stabilizer Assemblies (A through H) have general areas of missing paint. The primer is intact and there is no evidence of corrosion.

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M. P. Dugan

Date:

04/14/2004

Ref. Drawings for JAF: 3.72-6C, 3.72-9E, 3.72-17

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	bulges, gouges, arc strikes			Metal disco		fied Conditions for  Metal corrosion, scoloration, wear, no coating		ering Checking		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-1 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: The interior of this penetration has general areas of missing coating. The primer is intact and there is no evidence of corrosion or material loss.

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Examination performed by:	M. P. Dugan	100000		Date: _	04/24/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nicks, dents, pits, bulges, gouges, arc strikes		Ide Metal cracking		Metal corrosion, discoloration, wear, no coating		Rlistering		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration  X-1  Exterior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: The exterior of this penetration has general areas of missing coating. The primer is intact and there is no evidence of corrosion or material loss.

Examination performed by: _	M. P. Dugan	Sussum	Date: _	4/24/2004
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ATTACHMENT 7.1	GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCO.	ATED SURFACES
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RFO-24		Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulq gou	ks, pits, ges, ges, trikes	Me crac	etal king	Me corro discolo we no co	sion, ration, ar,		ering ting)		cking ting)	Crac (coa	king ting)		king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-2</b> Interior	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: The interior of this penetration has general areas of missing coating. The primer is intact and there is no evidence of corrosion or material loss.

Examination performed by:	M. P. Dugan	Sulsay	Date: _	04/12/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac	tal	Me corro discolo we no co	etal sion, oration, ar,	Bliste	<del>~~~~</del>	Chec	nd Uncking	Crac	Surfa king ting)	Flai	king iting) .	Ruststaining		Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
Penetration <b>X-2</b> Exterior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	See Note 1	

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: The exterior of this penetration has general areas of missing coating. The primer is intact and there is no evidence of corrosion or material loss.

Examination performed by: _	M. P. Dugan	Shipsung		Date: <u>4/24/2004</u>	_
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents _bulg goug arc st	, pits, jes, jes,	Me	tal	ntified Me corro discolo we no co	ital sion, oration, ar,	Bliste	ering	Chec (coa	king	Crac	Surfa king ting)	Flal	king ting)	Ru staii	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-3 Exterior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: This penetration has general areas of coating and with several areas of primer degradation. There are minimal areas of light corrosion with no material loss.

Examination performed by: _	M. P. Dugan _	Sun	Sun		Date: _	4/24/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 2

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	bulg	, pits, ges, ges,		Ide etal king	ntified Me corro discolo we no co	etal sion, oration, ar,	Bliste		Chec	nd Un king ting)	Crac	Surfa king ting)	g Flaking Rust (coating) staining		Other conditions		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-3 Interior	N/A	X	N/A	Х	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1. See attached sheet for obstructions

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: The interior of this penetration has general areas of missing coating. The primer is intact and there is no evidence of corrosion or material loss.

Examination performed by:	M. P. Dugan	Shipsun	<u> </u>	Date:	04/14/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 2 of 2

Penetration X-3 (Drywell Flange) obstructions:

The interior of penetration X-3 is obstructed by Containment Cooling duct work. Most of the circumference is obstructed except for an approximately (6') six foot length where there is no duct work. There is also a gap between the duct work and the reactor vessel shell on the reactor vessel side where approximately (1') one foot of the surface of penetration X-3 can be seen. None of the surface directly under the duct work can be seen.

Examination performed by: M. P. Dugan Date: 04/14/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,		Metal		Conditetal sion, oration, ar, pating	Bliste		Chec			king	Flal	king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-4 Exterior	N/A	X	N/A	X	N/A	х	N/A	X	N/A	X	N/A	х	N/A	X	N/A	x	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12:

Note 1: This penetration has general areas of coating and primer degradation. There are minimal areas of light corrosion with no material loss.

Examination performed by:	M. P. Dugan	Ship	1 rud	V	 Date:	4/24/2004
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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	bulg	, pits, ges, ges,		Metal		Condital sion, ration, ar, ating	Rlista	ering		king	Crac (coa	king	Flal	king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-6 Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Examination performed by: M. P. Dugan Date: 04/09/2004

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

· · ·				lde	ntified	Condi	tions fo	or Coa	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges, rikes	Me crac		Me corro discolo we no co Yes	sion, ration ar,	Bliste (coa		Chec (coa	_	Crac (coal	_	Flai (coa	~	Ru stair Yes		Other conditions
Penetration X-7A Exterior	Yes N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	<b>X</b>	N/A	X	N/A	X	This is a bellows penetration.
Penetration <b>X-7B</b> Exterior	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	Х	This is a bellows penetration.
Penetration  X-7C  Exterior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	This is a bellows penetration.
Penetration X-7D Exterior	N/A	x	N/A	Х	N/A	х	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	This is a bellows penetration.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawings 5920-41 R/12 and G-191179 Sh. 1 R/7.

Examination performed by: M. P. Dugan Date: 04/13/2004

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	itions f	or Co	ated ar	nd Un	coated	Surfa	aces				1
Component Number or Zone Number	Nic dents bulg goud arc st Yes	, pits, jes, ges,	Me crac		Me corro discolo we no co Yes	sion, ration, ar,	Bliste (coa	ering ting)	Chec (coa	ting)	Crac (coa	•	. (coa	king ting)	stai		Other conditions
Penetration	res	11/0	res	NO	res	IVO	res	140	res	No	res	INO	Yes	No	Yes	No	
X-7A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration <b>X-7B</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-7C Interior	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	x	N/A
Penetration X-7D Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	х	N/A

R/7.		(		
Examination performed by:	$\leq 1$	100		
Examination performed by:	M. P. Dugan	War	D	ate: <u>04/09/2004</u>
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These penetrations are ASME Category E-A, Item number E1.11. Reference drawings 5920-41 R/12 and G-191179 Sh. 1

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	dents bulg gou	ks, , pits, ges, ges, trikes	Metal cracking  Metal cracking  Metal corrosion, discoloration wear, no coating		Blistering C (coating) (			king	Cracking (coating)		g Flaking			ust ning	Other conditions		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-8</b> Interior	N/A	x	N/A	X	N/A	X	N/A	x	N/A	x	N/A	X	N/A	x	N/A	x	N/A

This penetration is ASME Category E-A, Item number E1.11. Reference drawings 5920-41 R/12 and G-191179 Sh. 1 R/7.

Examination performed by: M. P. Dugan Date: 04/08/2004

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulg gou		Me crac		Me corro discolo we no co	sion, ration,		ering ting)	Cheo (coa	_	Crac (coa	•		king ting)		ust ning	Other conditions
<i>:</i> . • • • • •	Yės	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	'Yes'	"No"	Yes	No	
Penetration <b>X-9A</b> Exterior	N/A	x	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	This is a bellows penetration.
Penetration <b>X-9B</b> Exterior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	This is a bellows penetration

G-191179 Sh.1 R/7.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and

Examination performed by: M. P. Dugan Date: 04/13/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria
No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Un	coatec	Surfa	aces				
Component Number or Zone Number	dents bulg	jes, ges,	Me crac		Me corro discolo we no co	sion, ration, ar,	1	ering ting)	Cheo (coa	cking ting)	Crac (coa			king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-9A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A
Penetration <b>X-9B</b> Interior	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	<b>X</b>	N/A

G-191179 Sh.1 R/7.				
Examination performed by:	M. P. Dugan	Shippong	Date: <u>04/</u>	09/2004

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulg gou		Me crac	ital king		sion,		ering ting)		cking ting)		king ting)		king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-10 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	x	N/A
Penetration X-11 Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A

G-191179 Sh.1 R/7.		$\bigcap$		
Examination performed by:	M. P. Dugan	Slep sur	Date:	04/12/2004
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These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated ar	ıd Un	coated	Surfa	ces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac		Me corro discolo we no co	sion, ration, ar,		ering ting)	Ched (coa	cking ting)	Crac (coa	-	1	king ting)	1	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-11</b> Exterior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	This is a bellows penetration
Penetration <b>X-12</b> Exterior	N/A	X	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	n/A	X	This is a bellows penetration

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by:	M. P. Dugan	Shellow		Date: _	04/13/2004
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ATTACHMENT 7.1 GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				Ide	ntified	Condi	tions f	or Coa	ated a	nd Un	coated	Surfa	ces				
Component Number or Zone Number	Nic dents bulg goug arc s	, pits, jes, ges,	Me crac	tal king	Me corro discolo we no co	sion, ration, ar,	Bliste (coa	~	1	king ting)	1	king ting)		king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-12</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by: M. P. Dugan Date: 04/09/2004

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				Ide	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac		Me corro discolo we no co	sion, ration,		ering ting)	Ched (coa	cking ting)	Crac (coa	_	Flal (coa	ding ting)	Rt stai	ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-13A</b> Exterior	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	N/A	X	N/A	X	N/A	x	This is a bellows penetration
Penetration <b>X-13B</b> Exterior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	This is a bellows penetration

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

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Examination performed by:	M. P. Dugan	JULY iDan		Date: _	04/13/2004
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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				Ide	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me crac		Me corro discolo we no co	sion, ration, ar,		ering ting)		cking ting)		king ting)		king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-13A Interior	N/A	X	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	. <b>X</b> .	Ņ/A	., <b>X</b>	. N/A
Penetration X-13B Interior	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	N/A	x	N/A

G-191179 Sh.1 R/7.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and

Examination performed by:	M. P. Dugan	Sh	iona		Date:	04/09/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

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Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Uni	coated	Surfa	ces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me crac			sion,	Bliste (coa	ering ting)		king ting)	Crac (coa	•	Flai (coa	king ting)	Rı staii	ıst ning	Other conditions
<u>, , , , , , , , , , , , , , , , , , , </u>	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-14 Interior	N/A	x	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A
Penetration <b>X-15</b> Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by: _	M. P. Dugan	Sulong		Date: _	04/14/2004
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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces		···		
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,		etal king	corro discolo we	oration,		ering ting)	1	cking ting)		king ting)		king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-16A Interior	N/A	X	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A
Penetration <b>X-16B</b> Interior	N/A	X	Ņ/A	x	N/A	x	N/A	x	N/A	x	N/A	X	N/A	x	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by:	M. P. Dugan	SWidna		Date:	04/14/2004
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ATTACHMENT 7.1 GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Un	coated	Surfa	ces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac	tal king	Me corre discole we no co	sion, ration,	Bliste (coa	ering ting)		cking ting)	ľ	king ting)		king ting)	Rt stai	ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-17 Interior	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	X	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-42 R/14.

Examination performed by: M. P. Dugan Survey Date: 04/14/2004

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

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Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lder	ntified (	Condi	tions f	or Coa	ated ar	nd Une	coated	Surfa	ces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me crac		Me corro discolo we no co	sion, ration, ar,	Bliste (coa	-	Ched (coa	_	Crac (coa	~	Flak (coa	•	Ru staii		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-18 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-19 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration <b>X-20</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-21 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-22 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-23 Interior	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-24 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration <b>X-26</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	Х	N/A	X	N/A
Penetration <b>X-27</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-30 Interior	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-31 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-32 Interior	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-34 Interior	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

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Examination performed by:	M. P. Dugan	WW On		_ Date: _	04/08/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surf	aces	<del></del>			
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes,	Me crac		corro discolo we	etal esion, eration, ear, eating		ering ting)	E .	cking ting)	(coating)		1	king ting)	Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-25</b> Interior	N/A	x	N/A	X	N/A	x	N/A	x	N/A	х	N/A	X	N/A	X	N/A	x	N/A
Penetration X-28 Interior	N/A	x	N/A	X	N/A	х	N/A	x	N/A	х	N/A	X	N/A	х	N/A	x	N/A
Penetration X-29 Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	X	N/A	X	N/A	X	N/A	х	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by:	M. P. Dugan	Slup	Sug	~	Date:	04/14/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	Nic dents bulg gou	•	rits, pits, es, crackin		Metal corrosion, discoloration, wear, no coating		Blistering		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-33</b> Interior	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A

This penetration is ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	itions f	or Co	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, ges, ges,	Me		Me corro discolo we no co	sion, ration, ar,	Bliste (coa	_	Chec (coa	king ting)	Crac (coa			king ting)	staining	Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-35A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	<b>"X</b>	N/A
Penetration <b>X-35B</b> Interior	N/A	x	N/A	x	N/A	Х	N/A	Х	N/A	X	N/A	X	N/A	x	N/A	х	N/A
Penetration X-35C Interior	N/A	х	N/A	x	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	N/A	x	N/A
Penetration X-35D Interior	N/A	x	N/A	X	N/A	х	N/A	х	N/A	х	N/A	x	N/A	x	N/A	x	N/A
Penetration X-35E Interior	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A	x	N/A

These penetrations are ASME Categ	ory E-A, Item number E1.11. Reference drawing	number 5920-41 R/12 and G-
191179 Sh. 1 R/0.		
	M. P. Dugan Suy	
Examination performed by:	M. P. Dugan	Date: <u>04/08/2004</u>
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

Component Number or Zone Number	dents bulq gou arc s	ges, trikes	crac	eta <b>l</b> king	Me corro discolo we no co	tal sion, ration, ar, ating	Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-36 Interior	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh.1 R/7.

Examination performed by: _	M. P. Dugan	Sullsua	 Date:	04/12/2004
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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated ar	nd Un	coated	Surfa	aces							
Component Number or Zone Number		, pits, jes, ges, trikes	Me crac	king	Me corro discolo we no co	sion, ration, ar, ating	(coa	ting)	(coa	Checking (coating)		(coating)		Cracking (coating)		Flaking (coating)		ıst ning	Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No				
Penetration X-37A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A			
Penetration X-37B Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A			
Penetration X-37C Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	. <b>X</b> _	Ņ/A	<b>.</b> X	. N/A			
Penetration X-37D Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A			

191179 Sh. 1 R/0.	<b>5</b>			
Examination performed by: _	M. P. Dugan	Shirtsay	Date: <u>04/12/2004</u>	
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These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	dents bulç gou arc s	ges, ges, trikes	Metal cracking		corro discolo we no co	Metal corrosion, discoloration, wear, no coating		(coating)		Checking (coating)		Cracking (coating)		king ting)	Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-38A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-38B Interior	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A
Penetration X-38C Interior	N/A	x	N/A	x	N/A	х	N/A	x	N/A	x	N/A	X	N/A	х	N/A	х	N/A
Penetration X-38D Interior	N/A	х	N/A	х	N/A	x	N/A	х	N/A	х	N/A	X	N/A	х	N/A	х	N/A

191179 Sh. 1 R/0.	•		·	
Examination performed by: _	M. P. Dugan	Shipsun	Date:	04/12/2004
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These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-

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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Und	coated	I Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me		Me corro discolo we no co	sion, ration, ar,	(coating)			Checking (coating)		Cracking (coating)		(ing ting)	Rust staining		Other conditions
	Ýės	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	`No	
Penetration X-39A Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	N/A	x	N/A
Penetration X-39B Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	x	N/A	x	N/A	X	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 Sh. 1 R/0.

Examination performed by: _	M P Dugan	Slephon	Date:	04/14/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents, bulg goug arc st	, pits, jes, jes,	Me crac		Me corro discolo we no co	sion, ration, ar,	Bliste (coa	e <b>ring</b> ting)	Chec (coa		Crac (coa		Flal (coa	king ting)	Ru stali		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-40A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration <b>X-40B</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A
Penetration X-40C Interior	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A
Penetration X-40D Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	<b>X</b>	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 R/0.

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	aces					
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,		Metal cracking		Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		king ting)	Rust staining		Other conditions	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
Penetration X-41 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	N/A	
Penetration X-47	N/A	` <b>X</b> `	N/A	X	N/A	X	N/A	Х	N/A	Х	N/A	X	N/A	X	Ñ/Ä	X	N/A	

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 R/0.

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**ATTACHMENT 7.1** 

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

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Yes = exceeds the recording criteria No = does not exceed the recording criteria

.·. ·				lde	ntified	Condi	tions f	or Co	ated ar	nd Un	coated	Surfa	aces			.4.	a. e .
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, ges,	Me crac		Me corro discolo we no co	sion, ration, ar,	Bliste (coa		Chec (coa	cking ting)	Crac (coa	_	Flai (coa	v	Rt stair	ıst ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-48</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration <b>X-49</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	X	N/A	х	N/A
Penetration <b>X-51</b> Interior	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	х	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 R/0.

Examination performed by: \_

M. P. Dugan

Date:

04/09/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

<i>.</i> .	Identified Conditions for Coated and Uncoated Surfaces											٠.					
Component Number or Zone Number	Nicks, dents, pits, bulges, gouges, arc strikes		Metal cracking		Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration <b>X-42</b> Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-43 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A
Penetration X-44 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A
Penetration X-45 Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-46 Interior	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A
Penetration X-50 Interior	N/A	X	N/A	X	N/A	х	N/A	X	N/A	X	N/A	х	N/A	x	N/A	х	N/A
Penetration X-52 Interior	N/A	Х	N/A	Х	N/A	Х	N/A	х	N/A	X	N/A	X	N/A	X	N/A	X	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12 and G-191179 R/0.

Examination performed by:	M. P. Dugan	Shipsun		Date:	04/12/2004
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Examination performed by:

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated a	nd Uni	coatec	Surfa	aces				
Component Number or Zone Number	gouges, cracking arc strikes		MISCOINFATION I		T.	Blistering (coating)		Checking (coating)		Cracking (coating)		king ting)	Rust staining		Other conditions		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-100A Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1
Penetration X-100B Interior	N/A	х	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1

Note 1: These penetrations are both partially obstructed by electrical junction boxes. There is approximately 10" of the penetration visible. The containment wall around the penetration is not obstructed. The extent of obstruction is indeterminate due to the unknown dimension of the portion of the penetration inside the junction box.

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

M. P. Dugan

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated a	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nicks, dents, pits, bulges, gouges, arc strikes		Metal cracking		Metal corrosion, discoloration, wear, no coating		Blistering (coating)		Checking (coating)		Cracking (coating)		Flaking (coating)		Rust staining		Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-100C Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	x	See Note 1
Penetration X-100D Interior	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: These penetrations are both partially obstructed by electrical junction boxes. There is approximately 10" of the penetration visible. The containment wall around the penetration is not obstructed. The extent of obstruction is indeterminate due to the unknown dimension of the portion of the penetration inside the junction box.

Examination performed by:	M. P. Dugan	Shi	Jour		Date:	04/17/2004
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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

· ·	٠.			lde	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	ces			.4. *	egge e
Component Number or Zone Number	Nic dents, bulg goug arc st	, pits, Jes, Jes,	Me crac		Me corro discolo we no co	sion, oration,	Bliste (coa	ering ting)		cking ting)	Crac (coa			king ting)	1	ıst ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-101B Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	x	N/A	X	N/A	X	N/A	x	N/A
Penetration X-101D Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	x	N/A	X	See Note 1

Note 1: This penetration is partially obstructed by an electrical junction box. Approximately 10" of the penetration is visible. The extent of the obstruction is indeterminate due to a portion of the penetration being inside the electrical box.

These penetrations are ASME	Category E-A, I	tem number E1.11. Re	ference drawing number (	5920-41 R/12	2.0
		. (			
	•	$\leq h$	•		
Examination performed by:	M. P. Dugan	July Buy		Date: _	04/12/2004
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ATTACHMENT 7.1

GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated ar	nd Un	coated	Surfa	ces				
Component Number or Zone Number	dents bulg	jes, ges,	Me crac		Me corro discolo we no co	sion, ration, ar,	Bliste (coa		Chec (coa	•	Crac (coa	king ting)	3	king ting)	Ru stair		Other conditions
	Yes	No	Yes	No	Yes	20	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-104A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	See Note 1

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: This penetration is partially obstructed by an electrical junction box. There is approximately 10" of the penetration visible. The containment wall around the penetration is not obstructed. The extent of obstruction is indeterminate due to the unknown dimension of the portion of the penetration inside the junction box.

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Examination performed by:	M. P. Dugan	Jul sun	$\sim$	Date:	04/17/2004
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ATTACHMENT 7.1 GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

**RFO-24** 

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Co	ated ar	nd Un	coated	Surfa	aces				
Component Number or Zone Number	Nic dents bulg goug arc st	, pits, jes, jes,	Me crac		Me corro discolo we no co	sion, ration, ar,	Bliste (coa		Ched (coa	cking ting)	Crac (coa	_	Flai (coa	king ting)		ust ning	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-105A Interior	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	See Note 1
Penetration X-105C Interior	N/A	X	N/A	X	N/A	X	N/A	Х	N/A	X	N/A	X	N/A	X	N/A	X	See Note 2
Penetration X-105D Interior	N/A	X	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	x	N/A	x	See Note 2

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Note 1: This penetration is mostly obstructed by an electrical junction box. There is approximately 3" of the penetration visible. The containment wall around the penetration is not obstructed. The extent of obstruction is indeterminate due to the unknown dimension of the portion of the penetration inside the junction box.

Note 2: These penetrations are partially obstructed by an electrical junction box. There is approximately 10" of the penetration visible. The containment wall around the penetration is not obstructed. The extent of obstruction is indeterminate due to the unknown dimension of the portion of the penetration inside the junction box.

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Examination performed by: _	M. P. Dugan	Shiping	Date:	04/17/2004

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GENERAL VISUAL EXAMINATION CHECKLIST FOR COATED AND UNCOATED SURFACES

#### **RFO-24**

Sheet 1 of 1

Yes = exceeds the recording criteria No = does not exceed the recording criteria

				lde	ntified	Condi	tions f	or Coa	ated ar	nd Und	coated	Surfa	ices				
Component Number or Zone Number	Nic dents, bulg goug arc st	, pits, jes, jes,	Me crac		Me corro discolo we no co	sion, ration, ar,		e <b>ring</b> ting)	Ched (coa	_	Crac (coa	king ting)	Fial (coa		Ru	ıst	Other conditions
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Penetration X-106 Interior	N/A	X	N/A	X	N/A	x	N/A	X	N/A	X	N/A	X	N/A	X	N/A	x	N/A
Penetration X-107 Interior	N/A	X	N/A	X	N/A	x	N/A	x	N/A	X	N/A	x	N/A	x	N/A	x	N/A

These penetrations are ASME Category E-A, Item number E1.11. Reference drawing number 5920-41 R/12.

Examination performed by: _	M. P. Dugan	Sur	Jun	Date:	04/17/2004
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### QUALITY RELATED \* Non-Administrative Procedure

INFORMATIONAL USE

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VT-3 EXAMINATION REPORT

Page 1 of 1

Work Document 02-004902-000	Component Identification Drywell Moisture Barrier Exterior			E-10.03 R/0	Report No. 24-10.03-IWE-01
■ Direct □ Remote	Equipment Used Flashlight Light Meter S/N		Illuminati Before After	on Verification 59.3 FC 58.3 FC	Character Card VE-28
Reportable Conditions					
No recordable indi	cations found	•			
				,	
a e e e e e e e e e e e e e e e e e e e	•				and the second of the second o
Remarks:					<u> </u>
The Moisture Barrier is in good condition including the coating and the caulk. The caulk is flexible to the touch.					
Examined By: M. P. Dugan		Reviewed By: D. B. King	BK-5	ANII R	eview
Level: III Date: 4	/8/2004	Level: 771	`Date: <i>H</i> -76-	Date:	



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ATTACHMENT 7.4	PERSONNEL QUALIFICATION FOR
Inspection Personnel C	Qualification Form for General Visual Examination
Name: David	King
Education:	
Experience: Cechit	Tèd Level III Examiser
<u></u>	1 1 2 cw/(

On the basis of the above, I have determined that the subject individual is capable of performing General Visual Examinations at IP2, IP3, JAF, Pilgrim, and/or Vermont Yankee as required by ASME Section XI 1992 Edition, 1992 Addenda, or 1998 Edition, no Addenda, Subsection IWE, Subparagraph IWE-3510.1

This qualification expires one year from the date of the eye examination.

Responsible Individual

April 2004 Date



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<u>18</u>

ATTACHMENT 7.4

**PERSONNEL QUALIFICATION FORM** 

#### Inspection Personnel Qualification Form for General Visual Examination

Name:	Micheal P. Dugan
Education:	
Experience:	Contified Level III Examples
Eye Exam: _	April 1,2004

On the basis of the above, I have determined that the subject individual is capable of performing General Visual Examinations at IP2, IP3, JAF, Pilgrim, and/or Vermont Yankee as required by ASME Section XI 1992 Edition, 1992 Addenda, or 1998 Edition, no Addenda, Subsection IWE, Subparagraph IWE-3510.1

This qualification expires one year from the date of the eye examination.

Responsible individual

Date



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ATTACHMENT 7.4	PERSONNEL QUALIFICATION FORM
Inspection Personnel Qualif	ication Form for General Visual Examination
Name: Floyd 7	- Medeck ffle
Education:	
Experience: Respusible	- Individual
Eye Exam:	,2004

On the basis of the above, I have determined that the subject individual is capable of performing General Visual Examinations at IP2, IP3, JAF, Pilgrim, and/or Vermont Yankee as required by ASME Section XI 1992 Edition, 1992 Addenda, or 1998 Edition, no Addenda, Subsection IWE, Subparagraph IWE-3510.1

This qualification expires one year from the date of the eye examination.

Responsible Individual

**Quality Record** 

April 1, 2004 Date