ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

	Recording Conditions																	
Component Number or Zone Number	1 ' 1		l .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Blistering (coating)		king ing)	Cracking (coating)		Peeling (coating)		Ru stair		Initial and Date	
IWE-046-001	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
VCM-01		X		X		X		X		X		X		X		X	A 3/10/2000	
VCL-02		Х		X	X			X		X		Х		X		X	3/10/2000	

EXAMINATION PERFORMED BY:

DATE_

Page 14 of 19



iP2-GEG-3113 Rev. 1

Date: 03-10-2000

ATTACHMENT C Demonstration of Remote Examination Equipment

Type of equipment used <u>Nikon Action Lookout IV 10x50 blncculars</u>
Maximum Examination Distance: _751
Description of demonstration:
This demonstration is required to be performed prior to executing the General Visual Examinations when the use of remote equipment is required. This demonstration shall be witnessed by the Site ANII. (see note 1)
The remote equipment shall be able to resolve a 1/32" black line on a white background. Resolution and illumination shall be verified at a distance equal to the examination distance plus 20%. The light source shall be setup in an area to simulate the examination conditions. Measure the distance that is required to perform the demonstration. On one end of this distance setup the test line. On the other end of this distance setup the remote lighting and the remote examination equipment. Turn on the light. From the side with the remote equipment verify that the specified line thickness can be seen.
This demonstration only needs to be performed once at the beginning of this surveillance to qualify the light source and the remote equipment used. If the light source or the remote equipment is changed then the new equipment shall be qualified prior to use.
The acceptance of the results of this demonstration qualifies both this procedure and the remote equipment used to perform this procedure.
Demonstration distance 100 '
Demonstration performed by: Toruld & Dom Date 3/10/80
Demonstration performed by: White State 10/00 Demonstration witnessed by: May Sugard Date 3/10/00

Note 1: The ANII was notified by ConEd of the nature and schedule of the subject examinations but was not present to witness the remote demonstration. Since there is no code requirement for this witness, this stipulation has been deleted from the associated procedure.

ATTACHMENT D (cont.) Observations

IP2-GEG-3113 Rev. 1

Rev. Date: 03-10-2000

Component or Zone Number: IWE-046-001

Item No.	Description	Photo
01	Sealant is missing from Column 1-4. See Drawing IWE-DET-001 and ConEd Drawing DMD 322097 Det. 1.	00030801.jpg and 00030804.jpg
02	Metal corrosion is noted below concrete in a 2 foot cicumferential area between Column 3-4.	00030905.jpg 00031403.jpg

EXAMINATION PERFORMED BY: Grall S. De DATE 3/18/2000

PROJECT -**GUIDELINE**



IP2-GEG-3115

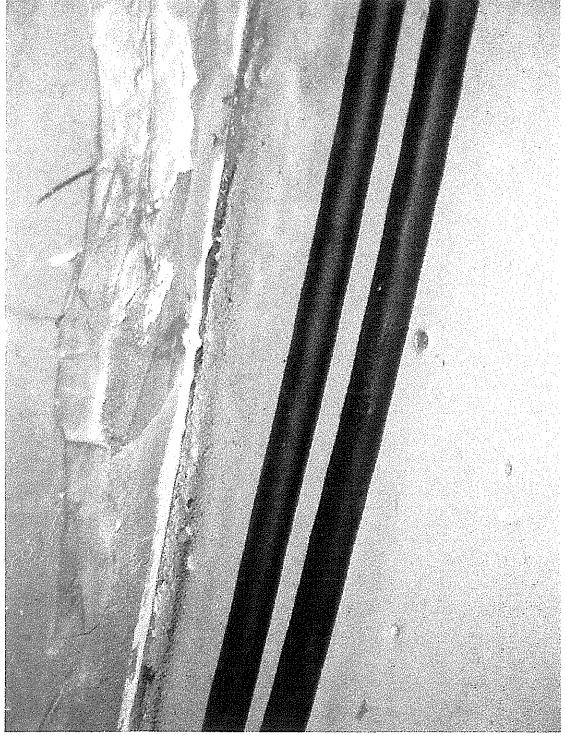
Rev. 1

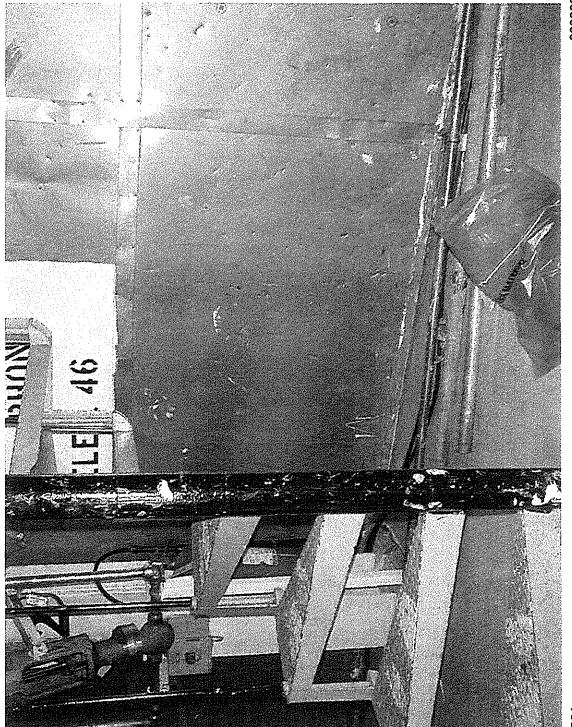
Date: 03-10-2000

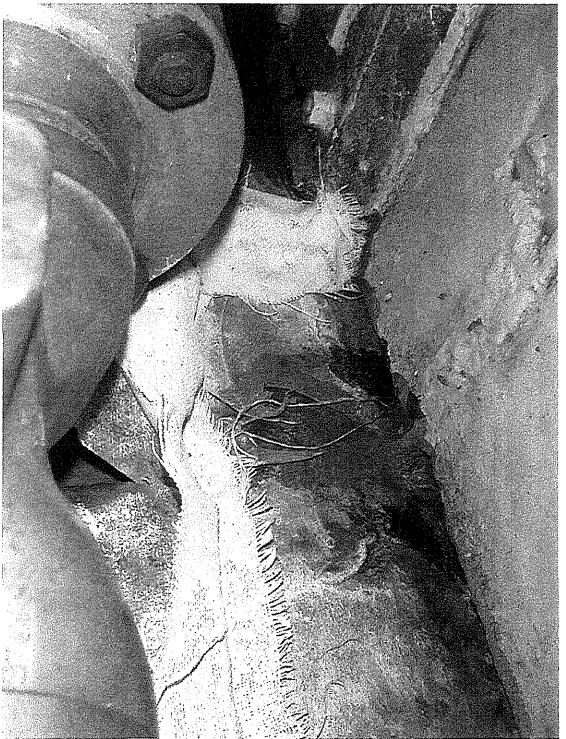
ATTACHMENT D (cont.) Responsible Engineer's Review

Component or Zone Number: IWE-046-001 Additional Item No. Discussion Acceptable Eval. Req'd. The corrosion of the liner at the slab interface requires engineering evaluation to determine its 01, 02 significance relative to Containment integrity. Subsequent investigations have revealed that this condition potentially exists throughout the entire circumference of the containment. The liner corrosion and the moisture barrier have been addressed via CRS 200001209.

RESPONSIBLE ENGINEER:







ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

	Recording Conditions																	
Component Number or Zone Number	Nicks, Gouges, arc strikes			Metal Cracking		Metal Corrosion		Blistering (coating)		king ing)	, l		Peeling (coating)		Rust staining		Initial and Date	
IWE-046-002	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
VCM-02		X		X		X		X		X		X		X		X	3/10/2000	
VCL-03		X		X		X		х		X		X		X		Х	3/10/2000	

EXAMINATION PERFORMED BY: Develd Sitte DATE 3/10/2

ATTACHMENT D (cont.) **Observations**

IP2-GEG-3113 Rev. 1

Rev. Date: 03-10-2000

Component or Zone Number: IWE-046-002

Item No.	Description	Photo
01	Area at moisture barrier caulking sealant is missing from Column 4-5. See Drawing IWE-DET-001 and ConEd drawing DMD 322097 Det. 1. Supplemental examinations will be performed to determine the extent of potential liner degradation.	00031601.jpg and 00031604.jpg

PROJECT GUIDELINE



IP2-GEG-3113

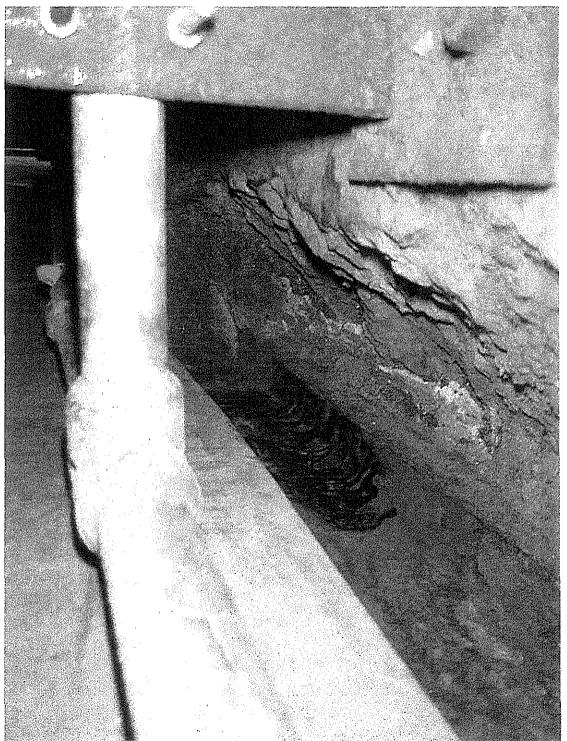
Rev. 1

Date: 03-10-2000

ATTACHMENT D (cont.) Responsible Engineer's Review

Item No.	Discussion	Acceptable	Addition Eval. R
01	The corrosion of the liner at the slab interface requires engineering evaluation to determine its significance relative to Containment integrity. Subsequent investigations have revealed that this condition potentially exists throughout the entire circumference of the containment. The liner corrosion and the moisture barrier have been addressed via CRS 200001209.		√





ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

	Recording Conditions																	
Component Number or Zone Number	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		Initial and Date	
IWE-046-003	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	1	
VCM-03		X		X		X		X		X		X		X		X	File 3/10/2000	
VCL-04		X		X		X		X		X		Х		X		X	Th 3/10/2000	
MP-H	-	X		Х		X		X		X		X		X	X		3/10/2000	
MP-G		X		Х		X		X		Х		X		X	X		3/10/2000	
MP-D		X		X		X		X		X		X		X	X		3/10/2000	
MP-C		X		х		X		X		X		X		X	Х		3/10/2000	

EXAMINATION PERFORMED BY: Tould S. To

DATE 3/10/2000

ATTACHMENT D (cont.) Observations

IP2-GEG-3113 Rev. 1

Rev. Date: 03-10-2000

Component or Zone Number: IWE-046-003

Item No.	Description	Photo
	Mechanical penetration nos. MP-C, MP-D, MP-G and MP-H showed surface rusting on the head plates. Penetrations are for main steam and feedwater piping with service that will not promote an active corrosive environment. Rust staining around the mechanical penetrations is classified as ASTM D610, Grade 1 –2 that is between 1/3 and 1/2 of the head plate circumference is rusting.	00031706.jpg, 00031707.jpg, 00031708.jpg, 00031709.jpg and 00031710.jpg

EXAMINATION PERFORMED BY:

DouldSine

DATE

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IP2-GEG-311ა

Rev. 1

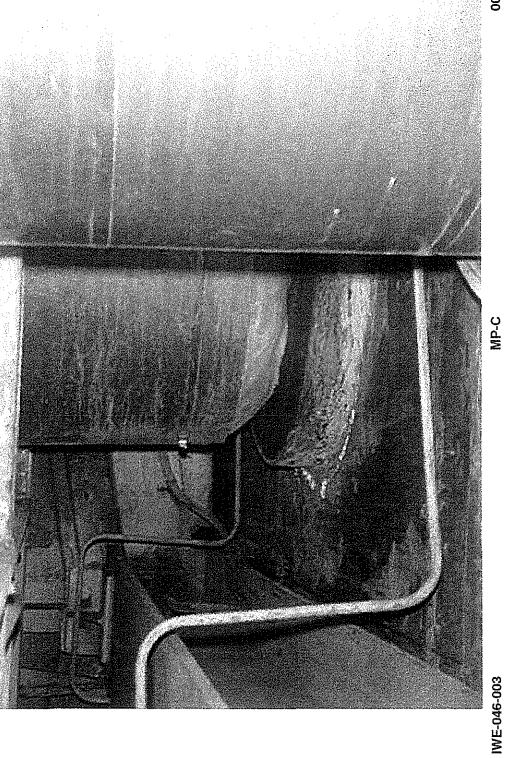
Date: 03-10-2000

ATTACHMENT D (cont.) Responsible Engineer's Review

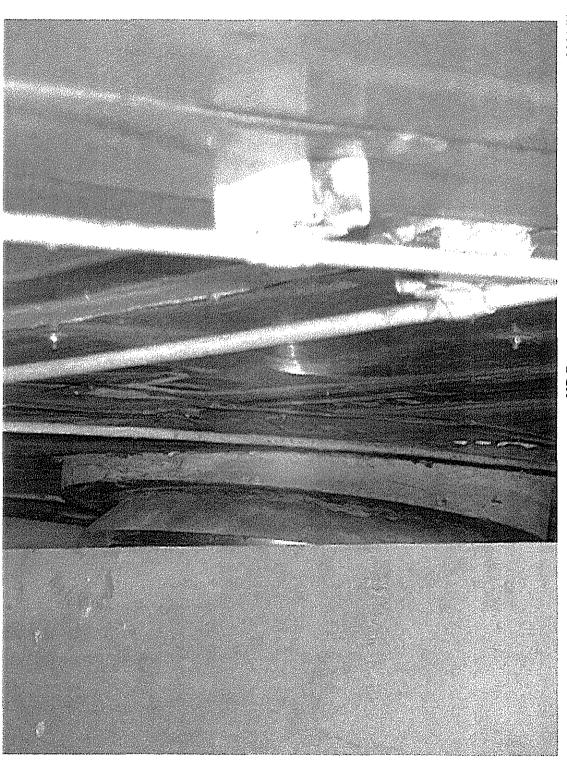
		Responsible Engineer's Revie	W
Component or Zone Number:	IWE-046-003		

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
	The corrosion on the 2-1/2" thick penetration head plates has resulted from high temperatures, which have burned off the coating and allowed corrosion of the plate. (MP-C and MP-D are for Main Steam lines with process temperatures of 556°F. MP-G and MP-H are for Feedwater lines with process temperatures of 427°F.) The corrosion is powdery in form and does not exhibit flaking or pitting which would indicate a more severe condition. During plant operation the piping temperatures will be sufficiently high as to preclude moisture from the head plates and thus the plates will only be subject to corrosion during plant outages. These times are sufficiently short and the corrosion rates sufficiently low as to not result in significant loss of material (i.e., well less than 10% as discussed in IWE-3512.3) Corrosion on the penetration sleeves is general surface corrosion that has not resulted in any significant loss of material. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	

RESPONSIBLE ENGINEER: ______ DATE 7//3/c







ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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***************************************	Ī	Recording Conditions															
Component Number or Zone Number	Nicks, Gouges, arc strikes		es			Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		ling ting)	Rust staining		Initial and Date
IWE-046-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCM-04		X		X		X		X		X		X		X		X	3/10/2000
VCL-05		X		X		Х		X		X		Х		Х		X	3/10/2000
MP-F		Х		X		х		Х		X		X		X	X		3/10/2000
MP-E		X		X		X		X		X		X		X	X		3/10/2000
МР-В		X		X		X		X		X		X		X	X		3/10/2000
MP-A		Х		X		X		X		X		X		X	X		3/10/2000
EP-H62		X		X		X		Х		Х		X		X		X	3/10/2000
EP-H61		X		X	:	X		X		X		X		X		X	3/10/2000
EP-H60		X		X		X		Х		X		X		X		X	3/10/2000
EP-H59		X		Х		X		X		Х		X		X	X		(m) 3/10/2000
EP-H58		X		X		Х		X		X		X		X	X		D 3/10/2000
EP-H49		X		X		X		X		X		X		X		X	3/10/2000
EP-H48		X		X	0 -	X		X		X		X		X		X	3/10/2000

EXAMINATION PERFORMED BY:

DATE 3/10/2000

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

Yes = exceeds the recording criteria
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	Recording Conditions																	
Component Number or Zone Number	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		Initial and Date	
IWE-046-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
EP-H18		X		X		X		X		X		X		X	X		3/10/2000	
EP-H17		X		X		Х		X		X		X		X	X		3/10/2000	
EP-H16		X		Х		X		X		Х		X		X	X		3/10/2000	
EP-H15		X		Х		X		Х		X		X		X	X		3/10/2000	
EP-H14		X		X		X		X		X		X		X	X		3/10/2000	
EP-H13		X		х		X		Х		Х		X		X	X		Colle 3/10/2000	
EP-H12		X		X		X		X		X		X		X	X		3/10/2000	
EP-H11		X		X		X		X		X		X		X	х		3/10/2000	

EXAMINATION PERFORMED BY: Smilds - Corn DATE 3/10/2000

ATTACHMENT D (cont.) Observations

IP2-GEG-3113 Rev. 1

Rev. Date: 03-10-2000

Component or Zone Number: IWE-046-004

Item No.	Description	Photo
01	Mechanical penetration nos. MP-A, MP-B, MP-E and MP-F showed surface rusting on the end plates. Penetrations are for main steam and feedwater hot piping in which service will not promote an active corrosive environment. Rust staining is classified as ASTM D610, Grade 1-2 (between 1/3 and 1/2 of of end plate is rusted).	00031512.jpg - 00031515.jpg
02	Electrical penetration nos. EP-H11, EP-H12, EP-H13, EP-H14, EP-H15, EP-H16, EP-H17, EP-H18, EP-H58, EP-H59 showed loose surface rusting on the construction primer coat around the weld ring -to-flange areas. Rust staining is classified as ASTM D610, Grade 1-2 (between 1/3 and 1/2 of weld ring-to-flange circumference is rusted).	00031407.jpg - 00031417.jpg

EXAMINATION PERFORMED BY:

DATE

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

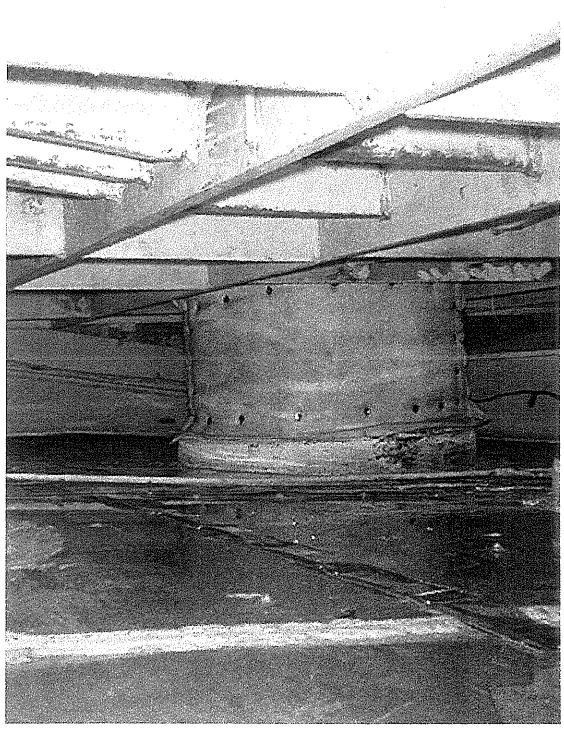
Rev. 1

Rev. Date: 03-10-2000

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

							Reco	ording	Condit	ions								
Component Number or Zone Number	Nicl Goug arc si	ges,	Met Crac		Met Corro		Bliste (coa		Ched (coat		Crac (coat	_	Pee (coat		Ru staii		Initial and Date	
IWE-046-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	1	
EP-H47		X		X		X		X		X		X		X		X	3/10/2000	
EP-H46		X		X		X		X		X		X		X		X	29 3/10/2000	
EP-H45		X		X		X		Х		X		X		X		Х	9 3/10/2000	
EP-H36		X		Х		X		X		Χ.		Х		X		Х	3/10/2000	
EP-H35		X		Х		X		X		X		Х		X		X	3/10/2000	
EP-H34		X		Х		X		X		X		Х		X		X	Way 3/10/2000	
EP-H33		X		X		X		X		Х		Х		X		X	3/10/2000	
EP-H32		X		X		X		X		X		X		X		X	M 3/10/2000	
EP-H23		X		X		X		Х		X		X		X		X	Eth 3/10/2000	
EP-H22		X		Х		X		X		X		X		X		X	SA) 3/10/2000	
EP-H21		X		х		X		X		X		Х		X		X	3/10/2000	
EP-H20		X		X		Х		X		X		X		X		X	SS 3/10/2000	
EP-H19		X		Х		- X		X		X		X		X		X	3/10/2000	

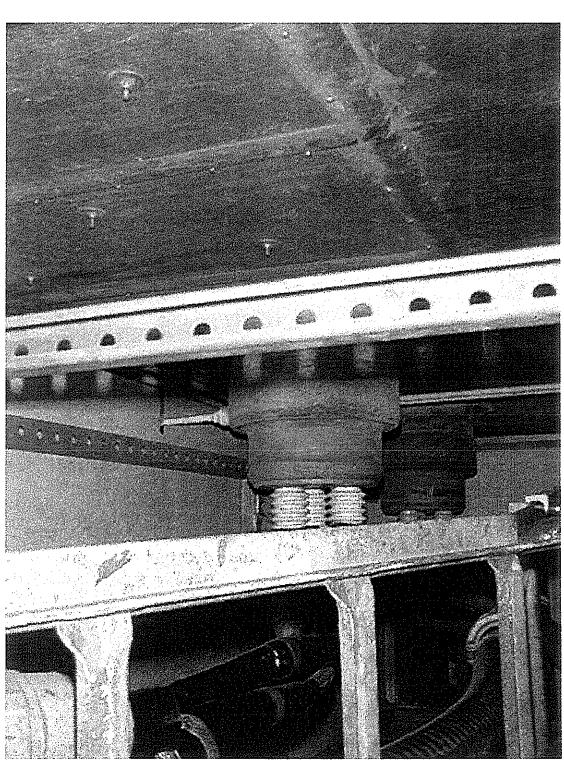
EXAMINATION PERFORMED BY: TORUL & Worm DATE 3/10/2000

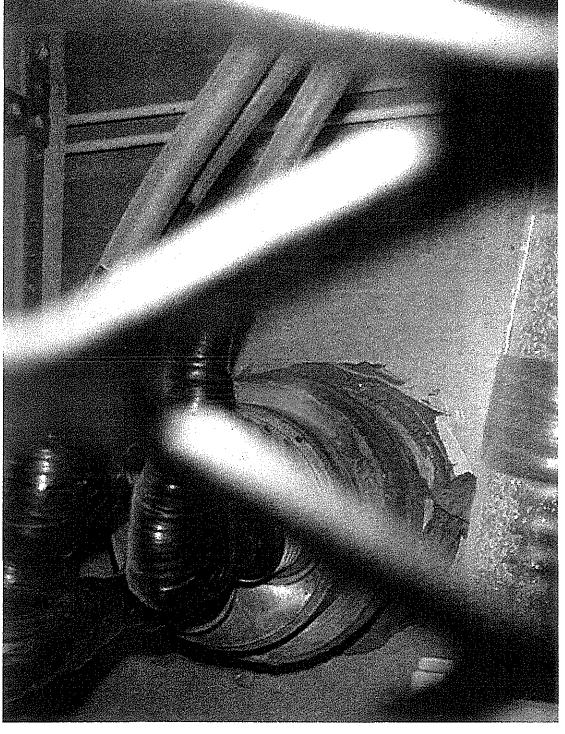




00031515.jpg

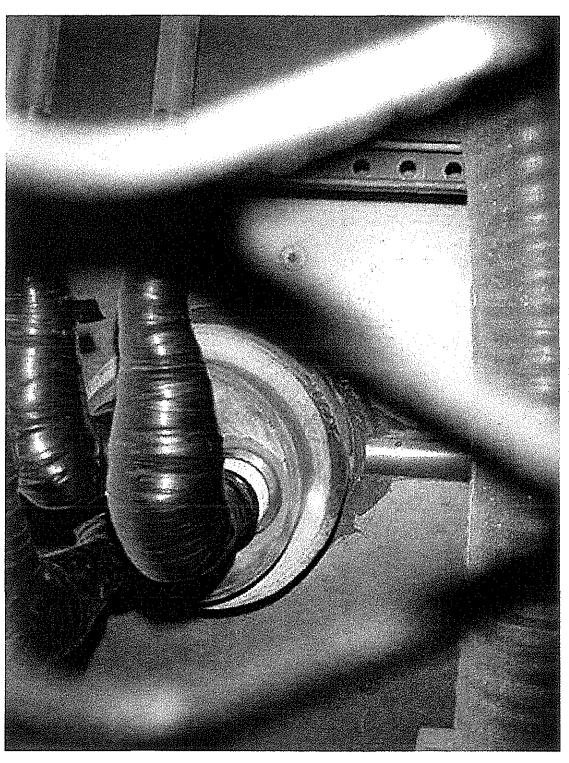
MP-F



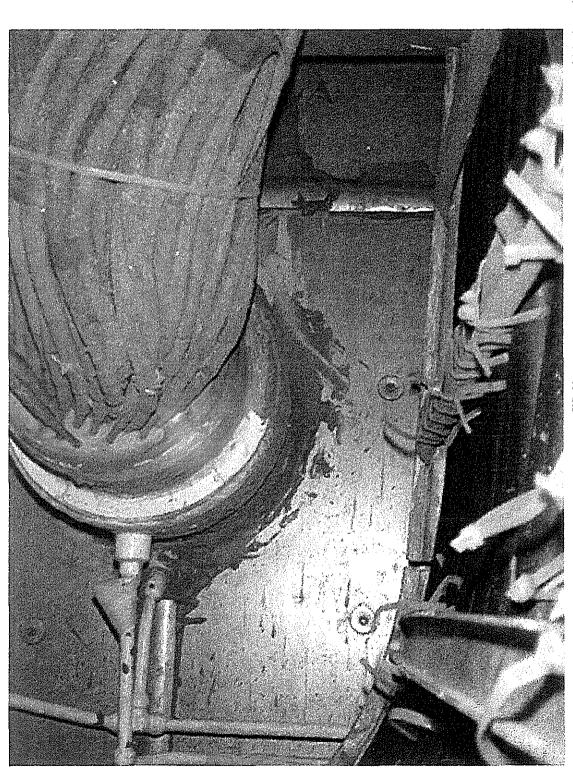


IWE-046-004









ATTACHMENT D General Visual Examination Checklist

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Rev. Date: 03-10-2000

Yes = exceeds the recording criteria
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							Rec	ording	Condit	ions					<u>-</u>		
Component Number or Zone Number	Nicl Goug arc st	ges,	Met Crac		Me ⁻ Corro		Blisto (coa		Chec (coa		Crac (coa		Pee (coa		Ru stai	ist ning	Initial and Date
IWE-046-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	1
VCM-05		X		X		X	1	X		X		X		X		X	3/10/2000
VCL-06		X	-	Х		X		Х		Х		X		Х		X,	3/10/2000
MP-X		X		Х		Х		х		X		Х		X	X	1	3/10/2000
MP-W		X		X	-	X		х		Х		X		X		X	3/10/2000
MP-V		Х		X		X		Х		X		Х		X		X	ER 3/10/2000
MP-U		X		X		X		Х		X		Х		X		X	alk 3/10/2000
MP-TT		Х		Х		X		Х		X		х		X		x	The 3/10/2000
MP-SS	į	X		X		X		X		Х		X		X		X	3/10/2000
MP-S		X		X		X		X		X		X		X	X		4 3/10/2000
MP-R		Х		X		X		X		X		X		X	X		3/10/2000
MP-QQ		Х		Х		X		Х		X		X		X	_	X	3/10/2000
MP-NN		X		х		Х		X		Х		Х		X	X		1 3/10/2000
MP-Mc		X		X		X		X	- <u>-</u> -	Х		X		X		X	3/10/2000

EXAMINATION PERFORMED BY: Catrulas Worn

DATE<u>3/(8/2880</u>

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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No = does not exceed the recording criteria

							Rec	ording	Condit	ions				•			
Component Number or Zone Number	Nick Goug arc st	jes,	Met Crac		Met Corro		Blisto (coa		Chec (coat		Crac (coa		Pee (coat		Ru stair		Initial and Date
IWE-046-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
MP-Mb		X		X		X		X		X		X		X		X	3/10/2000
MP-Ma		X		X		Х		X	_	X		Χ.	1	Х		X	3/10/2000
MP-LL		X		X		X		X		X		X		Х		х	3/10/2000
MP-Lc		X		X		X		X	_	Х		X		X		X	3/10/2000
MP-Lb		X		X		X		X		X		X		X	X		3/10/2000
MP-La		X		X		X		X		Х		X		X		X	3/10/2000
MP-KK		X		X		X		X		Х		Х		X		X	Soft 3/10/2000
MP-K		X		X		X		Х		X		Х		X		Х	The 3/10/2000
MP-JJ		X		Х		X		X		X		Х		X		Х	3/10/2000
MP-J	,	X		X		Х		X		X		X		X	X		EP 3/10/2000
EP-H70		X		X		X		X		X		X		Х		X	all 3/10/2000
EP-H69		X		X		X		X		Х		х	Х	<u> </u>		X.	1 3/10/2000
EP-H68		X		X		X		X		Х		Х		X		X	Tella 3/10/2000

EXAMINATION PERFORMED BY: ABUILD TOTAL DATE 3/10/2000

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

		-					Reco	ording	Condit	ions								
Component Number or Zone Number	Nick Goug arc st	jes,	Met Crac		Met Corro		Bliste (coat		Chec (coat		Crac (coat		Peeling (coating)		Rust staining		Initial and Date	
IWE-046-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
EP-H67		X		X		X		X		X		X		X		X	3/10/2000	
EP-H66		X		X		X		X		X		X		Х	X		The 3/10/2000	
EP-H65		X		X		X		X		X		X		Х		X	3/10/2000	
EP-H64		X		X		X		Х		X		X	X			X	ask 3/10/2000	
EP-H63		X		X		X		X		X		X		X		X	7 3/10/2000	
EP-H57		X		X		X		X		X		X		X	X		3/10/2000	
EP-H56		X		X		X		X		X		X		X		X	3/10/2000	
EP-H55		X		X		Х		Х		X		X		X		X	The 3/10/2000	
EP-H54		X		X		Х		Х		X		Х		X		X	Th) 3/10/2000	
EP-H53		X		Х		X		X		X		X		X		X	The 3/10/2000	
EP-H52		X		X		Х		Х		X		Х		Х		Х	3/10/2000	
EP-H51		X		X		Х		X		Х		Х		Х		X,	1/2000	
EP-H50		X		X	0	Х		X		Х		Х	X			X	W 3/10/2000	

EXAMINATION PERFORMED BY: Whild N. won

DATE 3/10/2000

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

							Rec	ording	Condit	ions							
Component Number or Zone Number	Nicl Gouç arc st	jes,	Met Crac		Met Corro		Bliste (coa		Chec (coat		Crac (coat		Pee (coa		Ru staiı		Initial and Date
IWE-046-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	1
EP-H44	-	X		X		X		X		X		X		х		X	A) 3/10/2000
EP-H43		X		X		X		X		X		X		X	X	-	3/10/2000
EP-H42		X		X		x		Х		X		X		x		X	(Ja) 3/10/2000
EP-H41		X		X		х		Х		X		X	Х			х	3/10/2000
EP-H40		X		X		х		Х		X		X		X		х	3/10/2000
EP-H39		X		X	·····	X		X		X		X		х		x	3/10/2000
EP-H38		X		X		X		X		X		X		Х		X,	3/10/2000
EP-H37		X		X		X		X		X		X		X	_	X	TH 3/10/2000
EP-H31		X		X		X		X		X		X		Х	X	<u> </u>	(M) 3/10/2000
EP-H30		X		X		X		х		X		X		X		X	ESK 3/10/2000
EP-H29		X		X		X		X		X		X		X	 	X	3/10/2000
EP-H28		X		X		X		X		X		X		X		X	(Jh) 3/10/2000
EP-H27		X		X		X		Х		X		X		X		X	1) 1 3/10/2000

EXAMINATION PERFORMED BY: Thelas. won

DATE 3/00/redu

ATTACHMENT D General Visual Examination Checklist

IP2-GEG-3113

Rev. 1

Rev. Date: 03-10-2000

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

		Recording Conditions																
Component Number or Zone Number	Nicl Gouç arc si	ges,	Met Crac		Me ^s Corro		Bliste (coat		Chec (coa	_	Crac (coat	-	Pee (coa	~	Ru stair		Initial and Date	
IWE-046-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
EP-H26		X		X		X		X		X		x		X		X	3/10/2000	
EP-H25		X		X		х		X		Х		X		Х		X	3/10/2000	
EP-H24		X		X		X		Х		Х		X		X	X		3/10/2000	

EXAMINATION PERFORMED BY: Excelded Extra DATE 3/10/2000

ATTACHMENT D (cont.) Observations

IP2-GEG-3113 Rev. 1

Rev. Date: 03-10-2000

Component or Zone Number: IWE-046-005

Item No.	Description	Photo
01	Mechanical penetration nos. MP-S, MP-X, MP-R, MP-Lb, MP-J, MP-NN showed surface rusting on the end plates. Penetrations with hot piping will have service that will not promote an active corrosive environment. Rust staining is classified as ASTM D610, Grade 1 –2 (between 1/3 and 1/2 of the end plate is rusting.)	00031516.jpg, 00031522.jpg, 00031523.jpg, 00031524.jpg, 00031528.jpg and 00031530.jpg
02	Electrical penetration nos. EP-H57, EP-H31, EP-H43, EP-H66, EP-H24, showed loose surface rusting around the weld ring -to-flange areas. EP-H69, EP-H41, EP-H64, EP-H50 penetrations limited coating peeling at nameplate and weld ring-to-flange areas. Rust staining is classified as ASTM D610, Grade 1 –2. (between 1/3 and 1/2 of the weld ring-to-flange circumference is rusting.)	00031532.jpg, 00031534.jpg, 00031537.jpg, 00031544.jpg, 00031612jpg, 00031535.jpg, 00031543.jpg, 00031550.jpg and 00031610.jpg

EXAMINATION PERFORMED BY: _

DATE B/10/2000

PROJECT GUIDELINE



IP2-GEG-3113

Rev. 1

Date: 03-10-2000

ATTACHMENT D (cont.) Responsible Engineer's Review

Responsible Engineer's Review Component or Zone Number: ____ IWE-046-005

tem No.	Discussion	Acceptable	Additional Eval. Req'd.	
01	The penetrations with corrosion on the head plates are for hot piping (with fluid temperatures above 200°F). During plant operation the piping temperatures will be sufficiently high as to preclude moisture from the head plates and thus the plates will only be subject to corrosion during plant outages. These times are sufficiently short and the corrosion rates sufficiently low as to not result in significant loss of material (i.e., well less than 10% as discussed in IWE-3512.3). Corrosion on the penetration sleeves is general surface corrosion that has not resulted in any significant loss of material. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓		
02	The corrosion on the electrical penetrations is generally due to damage or degradation of the coating. It is general surface corrosion that has not resulted in any significant loss of material and is not aggressive in nature. This condition does not reflect significant degradation of the Containment. Examination at the next regular inspection period is sufficient to monitor this condition.	V		
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RESPONSIBLE ENGINEER: DATE 2/3/100