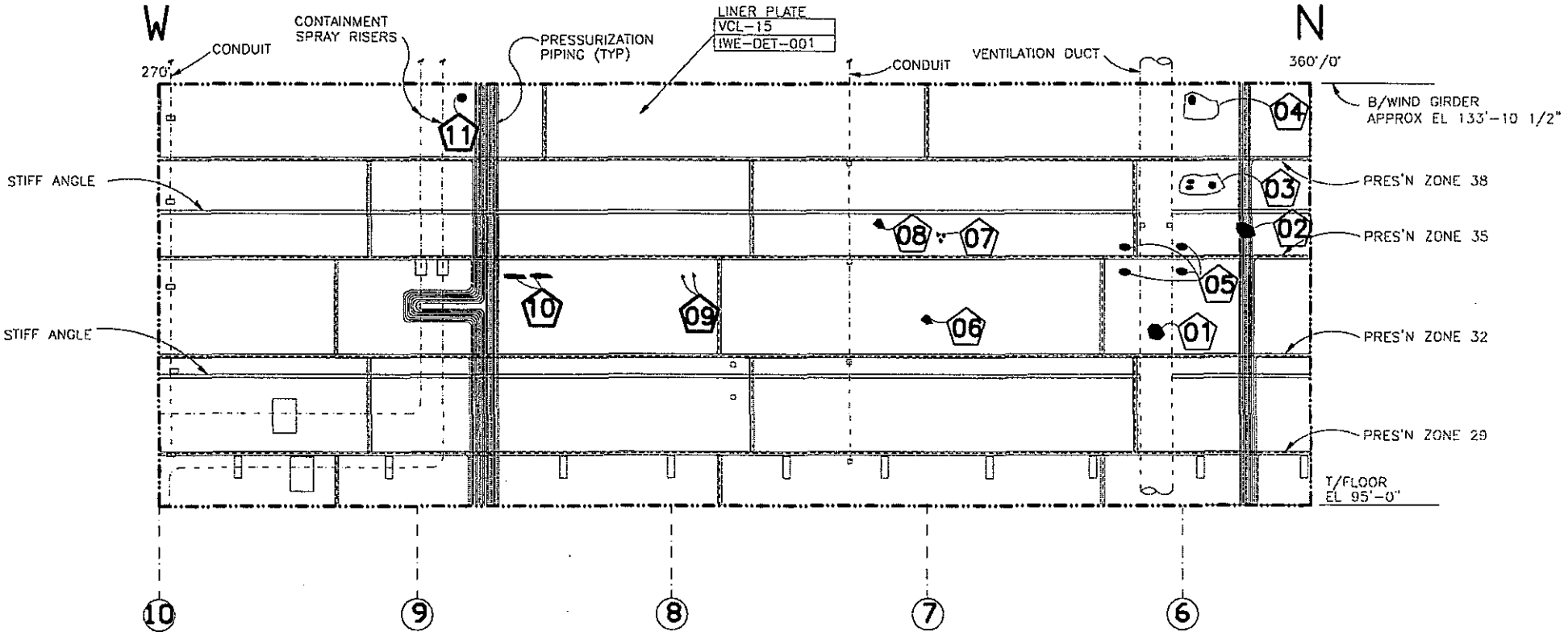
ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-095-002

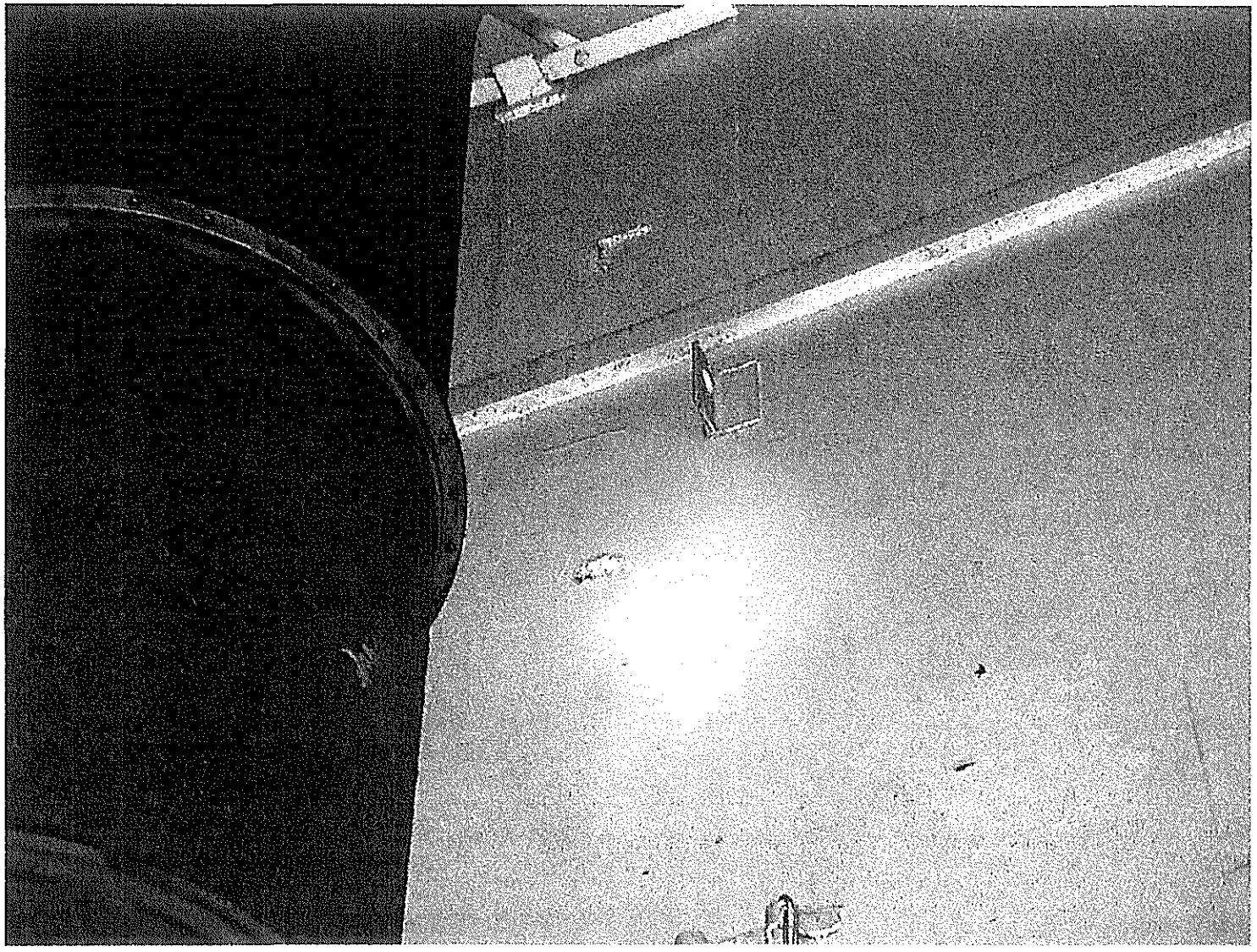
Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01 - 04 06 - 11	The reported conditions reflect deterioration of the coating, primarily delamination/loss of bond between the primer and topcoat. Since the primer is intact there is no reason to suspect any degradation of the liner. Minor surface corrosion is noted in a couple of locations, but does not reflect any significant material loss and is not an aggressive condition. These conditions are not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor them.	✓	
05	The welds appear to be remnants from previous attachments, most likely scaffolding brackets used during construction. The weld surface is irregular and thus the coating will not bond well. The corrosion is minor and does not reflect any significant loss of liner material. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

RESPONSIBLE ENGINEER: B C Sales DATE 7/13/00



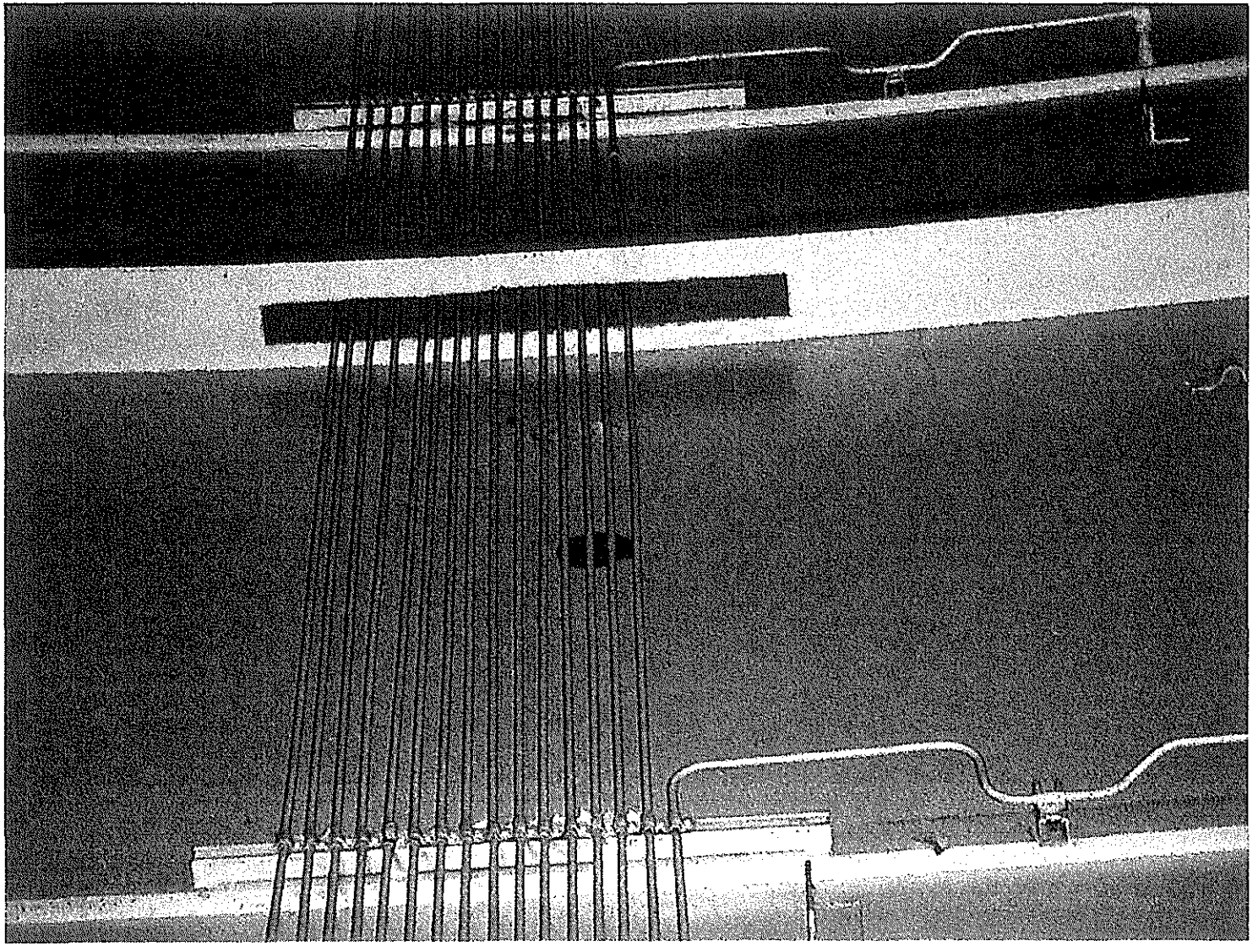
LINER INSPECTION ZONE IWE-095-002
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

XX –DENOTES ITEM NUMBER ON OBSERVATION FORM.



IWE-095-002

00031701.jpg



IWE-095-002

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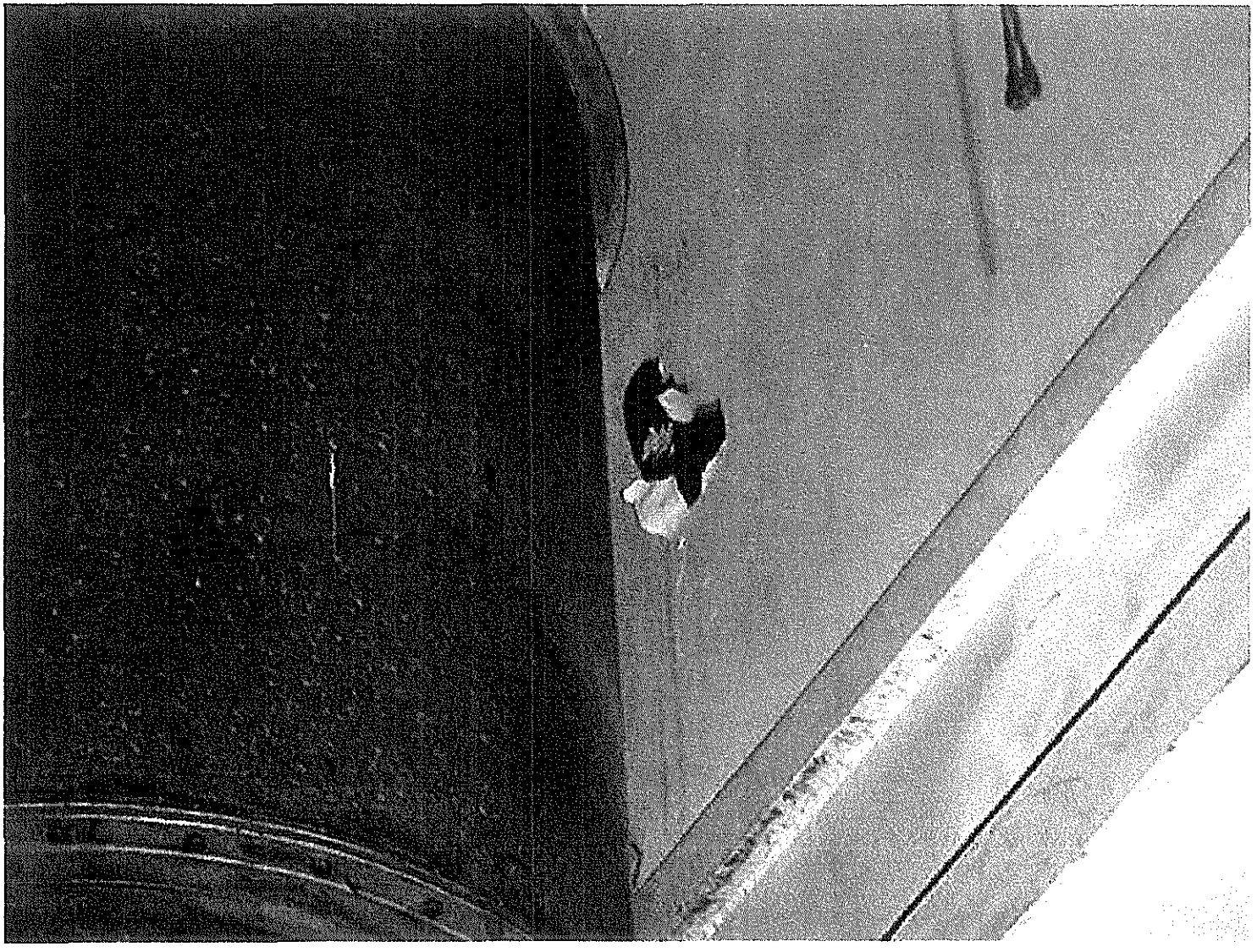

IWE-095-002

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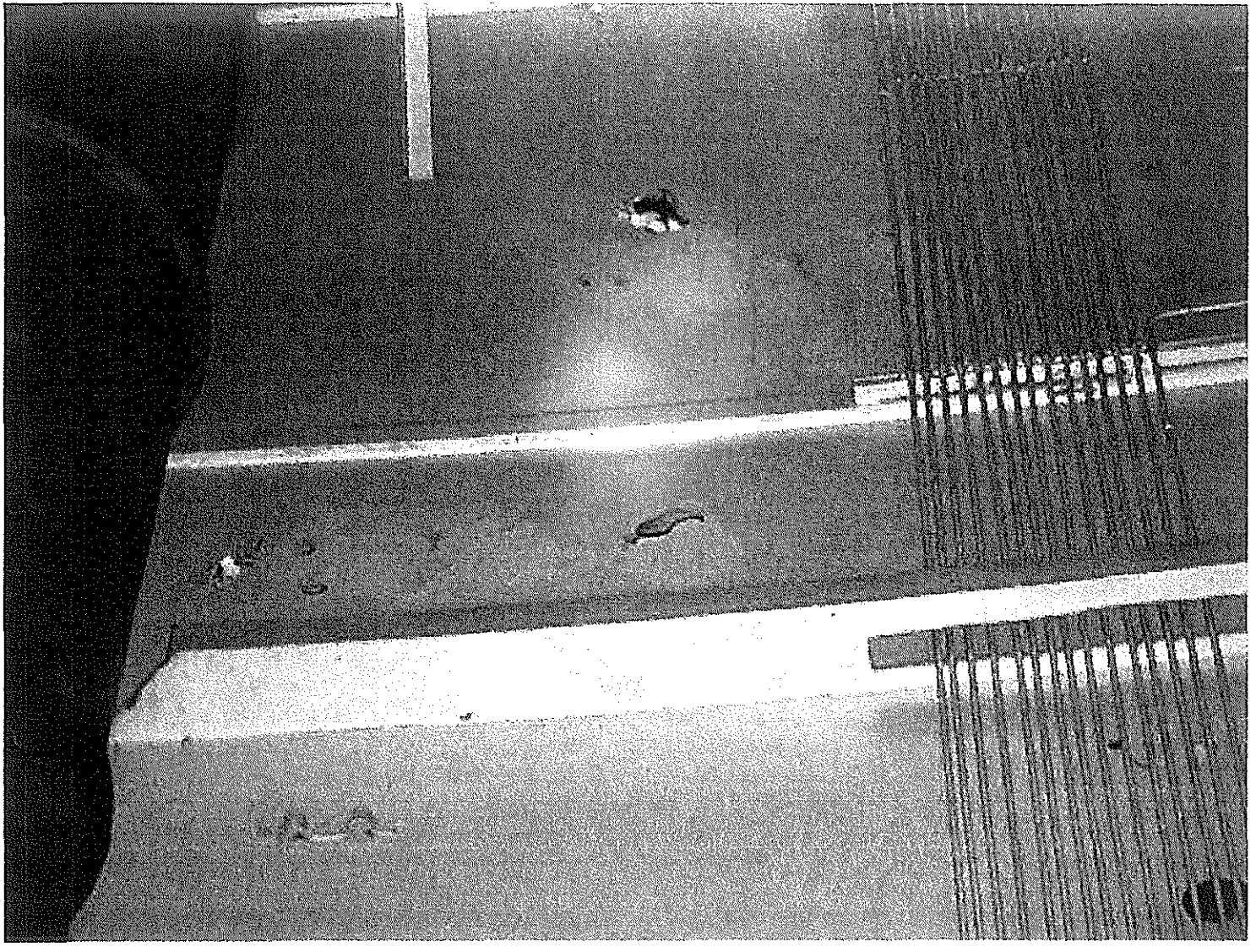


IWE-095-002

00031704.jpg

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-095-003	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-16		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: Donald L. Brown *DATE* 3/10/2000

ATTACHMENT D (cont.)
Observations

Component or Zone Number: IWE-095-003

Item No.	Description	Photo
01	Two (2) 2"x 4" areas show top coat delamination, checking and peeling. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
02	One (1) 3"x 3" area shows coated grinding depression in liner plate from scaffold clip removal. Coating intact.	None

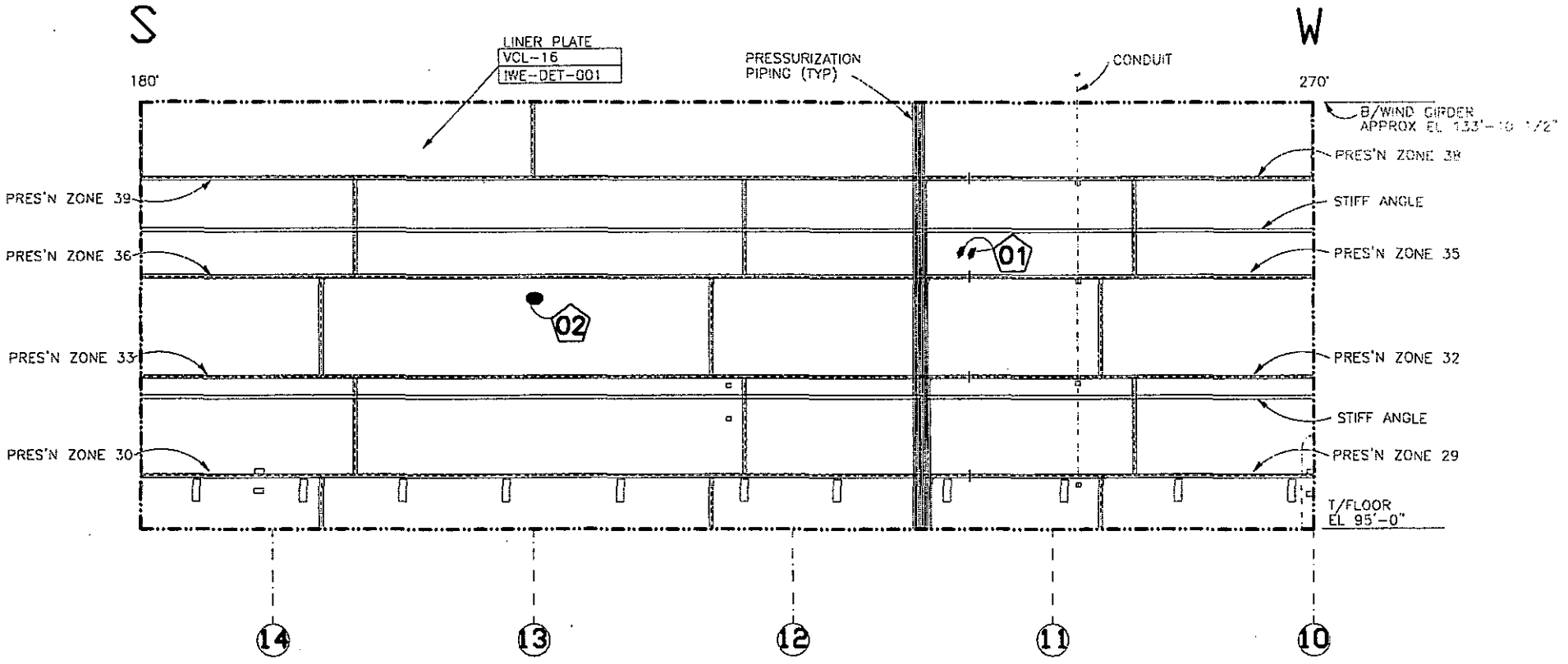
EXAMINATION PERFORMED BY: Donald A. Eaton *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-095-003

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01	The reported condition reflects deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	
02	Based on the fact that they are coated and the coating is intact, the subject depressions do not reflect ongoing degradation of the liner. They apparently remain from original construction.	✓	

RESPONSIBLE ENGINEER: [signature] DATE 7/3/00



LINER INSPECTION ZONE IWE-095-003

(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

XX –DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-095-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-17		X		X		X		X		X		X		X	X		3/10/2000

EXAMINATION PERFORMED BY: _____ *DATE* 3/10/2000

ATTACHMENT D (cont.)
Observations

Component or Zone Number: IWE-095-004

Item No.	Description	Photo
01	Coated 3" circumferential attachment shows minor rusting at the lower area. Rusting is classified ASTM D610, Grade 5, (3% of surface rusted). Primer intact.	None

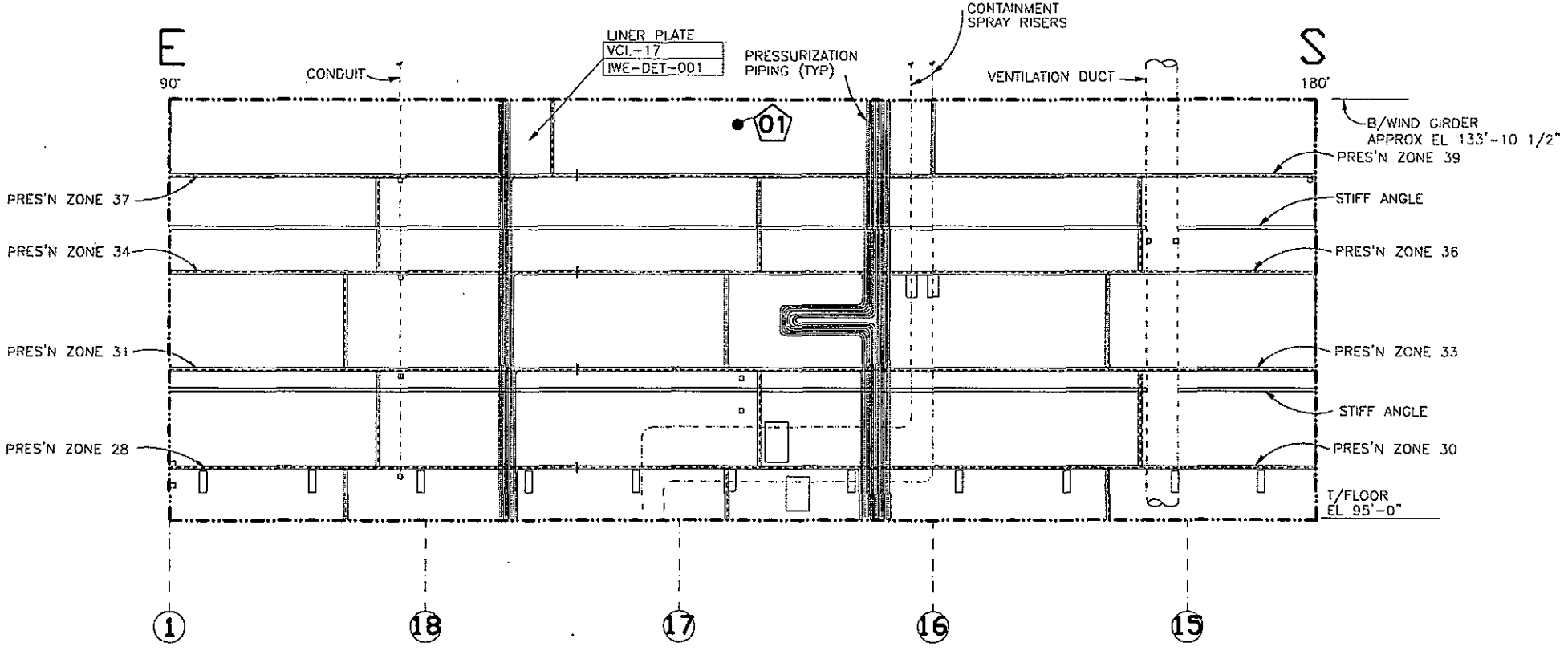
EXAMINATION PERFORMED BY: Donald S. Dorn *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-095-004

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01	Rusting of the attachment has not degraded the liner. The primer was observed to be intact and thus the liner is protected. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

RESPONSIBLE ENGINEER: _____ DATE 6/11/02



LINER INSPECTION ZONE IWE-095-004

(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

XX -DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-134-001	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-18		X		X		X		X		X		X	X			X	3/10/2000

EXAMINATION PERFORMED BY: _____ *DATE* 3/18/2000

ATTACHMENT D (cont.)
Observations

Component or Zone Number: IWE-134-001

Item No.	Description	Photo
01	Five small areas approximately 1"x1" each showing delamination and peeling.in topcoat. Primer intact.	None
02	One (1) area approximately 3"x6" show delamination and peeling in topcoat. Primer intact.	None

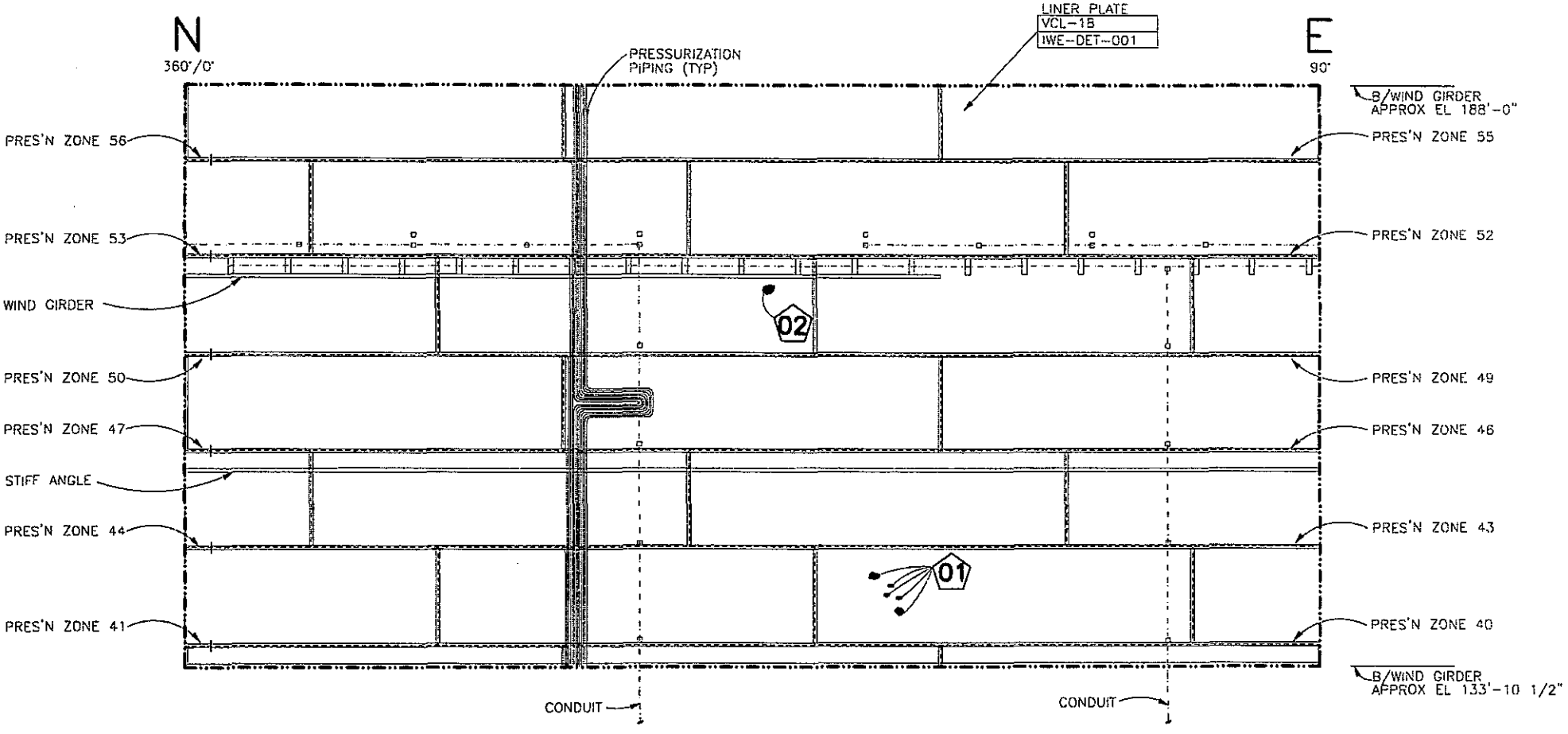
EXAMINATION PERFORMED BY: Donald S. Eaton *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-134-001

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01, 02	The reported conditions reflect deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	

RESPONSIBLE ENGINEER: _____ DATE 2/13/00



LINER INSPECTION ZONE IWE-134-001

(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

(XX) -DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-134-002	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-19		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: _____ *DATE* 3/10/2000

Component or Zone Number: IWE-134-002

Item No.	Description	Photo
01	Two (2) 1"x 4" areas shows top coat delamination and peeling in previously repaired area. Primer intact.	None
02	One (1) area shows top coat delamination checking with minor rusting in center. Rusting is classified ASTM D610, Grade 1, (3% of surface rusted). Checking to ASTM D660, Mosaic, Grade 8. Primer intact.	None
03	Two (2) areas 6"x12" and 12"x18" shows top coat delamination, checking and peeling. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
04	One (1) 4"x 4" area shows top coat delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None

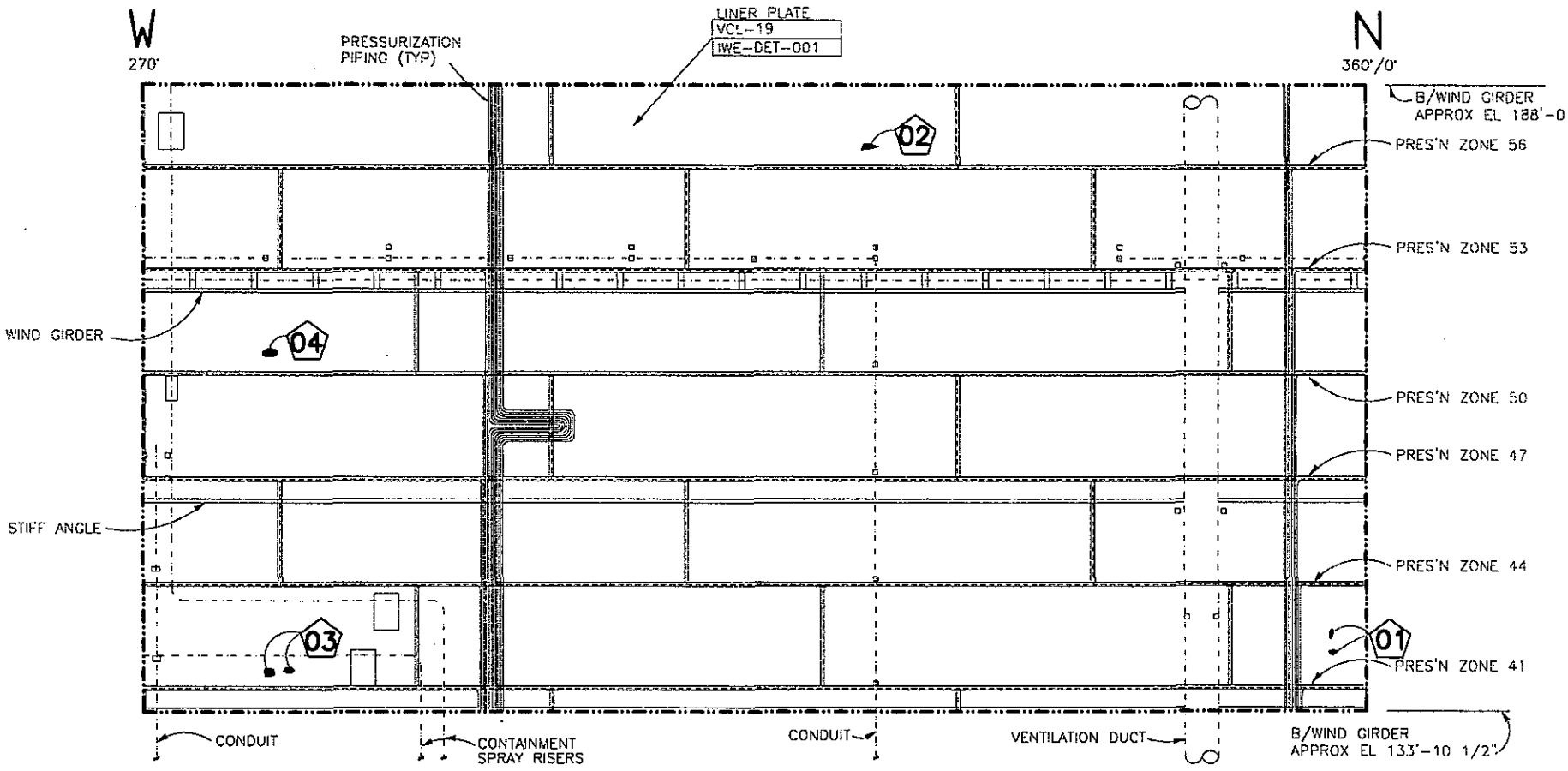
EXAMINATION PERFORMED BY: Donald A. Dorn *DATE* 3/18/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-134-002

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01, 03, 04	The reported conditions reflect deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	
02	The reported condition reflects deterioration of the coating (delamination/loss of bond between the primer and topcoat). Minor surface corrosion is noted, but does not reflect any significant material loss and is not an aggressive condition. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

RESPONSIBLE ENGINEER: _____ DATE 7/12/00



LINER INSPECTION ZONE IWE-134-002

(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

XX –DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-134-003	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-20		X		X		X		X	X			X		X	X		3/10/2000

EXAMINATION PERFORMED BY: Donald A. Dorn *DATE* 3/10/2000

ATTACHMENT D (cont.)
Observations

Component or Zone Number: IWE-134-003

Item No.	Description	Photo
01	Two (2) 2"x 3" areas show top coat delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
02	One (1) 1"x 1" area show top coat delamination checking with rusting and signs of primer coating diminishing. Rusting is classified as ASTM D610, Grade 4, 10% of surface rusted. Checking to ASTM D660, Mosaic, Grade 8. Primer intact.	None

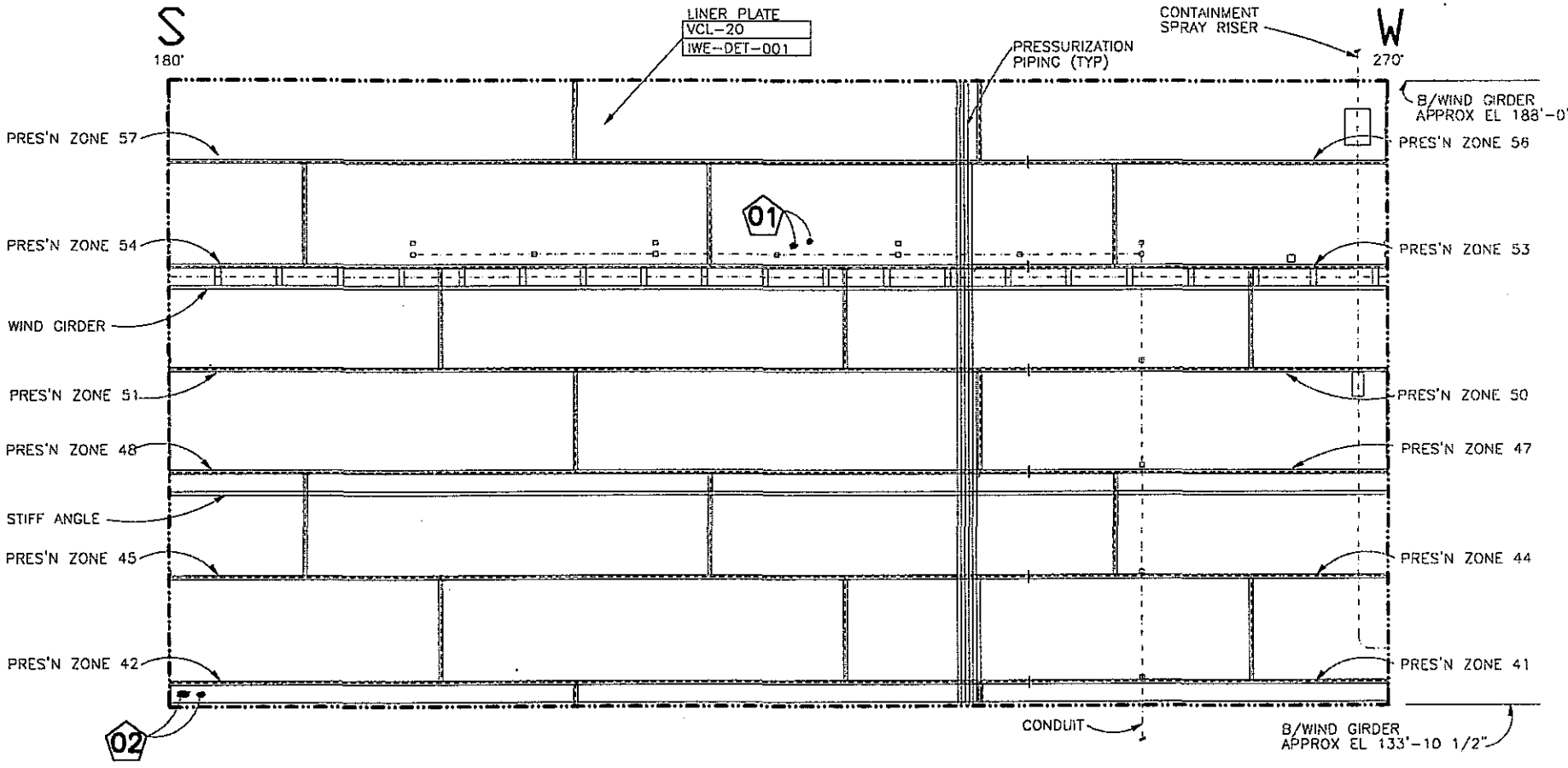
EXAMINATION PERFORMED BY: Donald A. Adams *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-134-003

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01	The reported condition reflects deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	
02	The reported condition reflects deterioration of the coating (delamination/loss of bond between the primer and topcoat). Minor surface corrosion is noted, but does not reflect any significant material loss and is not an aggressive condition. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

RESPONSIBLE ENGINEER: _____ DATE 7/13/00



LINER INSPECTION ZONE IWE-134-003
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

XX –DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-134-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-21		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: Donald S. Dorn *DATE* 3/10/2000

ATTACHMENT D (cont.)
Observations

Component or Zone Number: IWE-134-004

Item No.	Description	Photo
01	One (1) 5"x 5" area showing top coating peeling and delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
02	One (1) 2" x 2" area showing lubricant product residue. Top coat intact.	00030914.jpg
03	Two (2) coated areas from prior scaffold welding show signs of rusting to ASTM D610, Grade 5, 3% of surface area. Primer intact.	None
04	Four (4) 2"x 2" areas showing top coating peeling and delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
05	One (1) 3"x 3" area showing top coating delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None

EXAMINATION PERFORMED BY: Donald S. Dow *DATE* 3/10/2000

Component or Zone Number: IWE-134-004

Item No.	Description	Photo
06	One (1) 2"x 2" area showing top coating peeling and delamination and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None
07	One (1) 5"x 5" areas showing top coating peeling and checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	00030915.jpg
08	Five (5) 1"x 1" areas showing top coating delamination checking. Primer intact. Checking to ASTM D660, Mosaic, Grade 8.	None

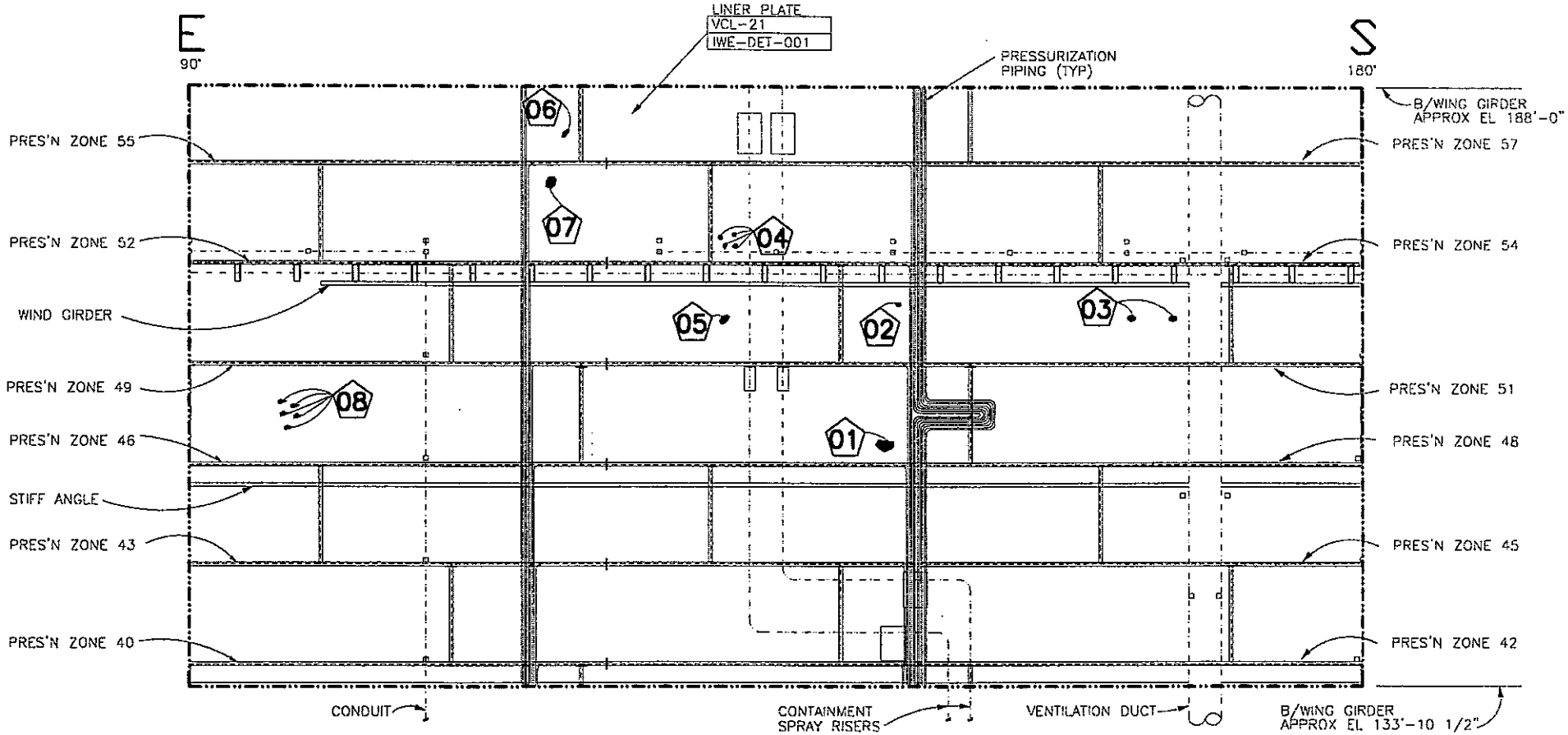
EXAMINATION PERFORMED BY: Donald S. Dr *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-134-004

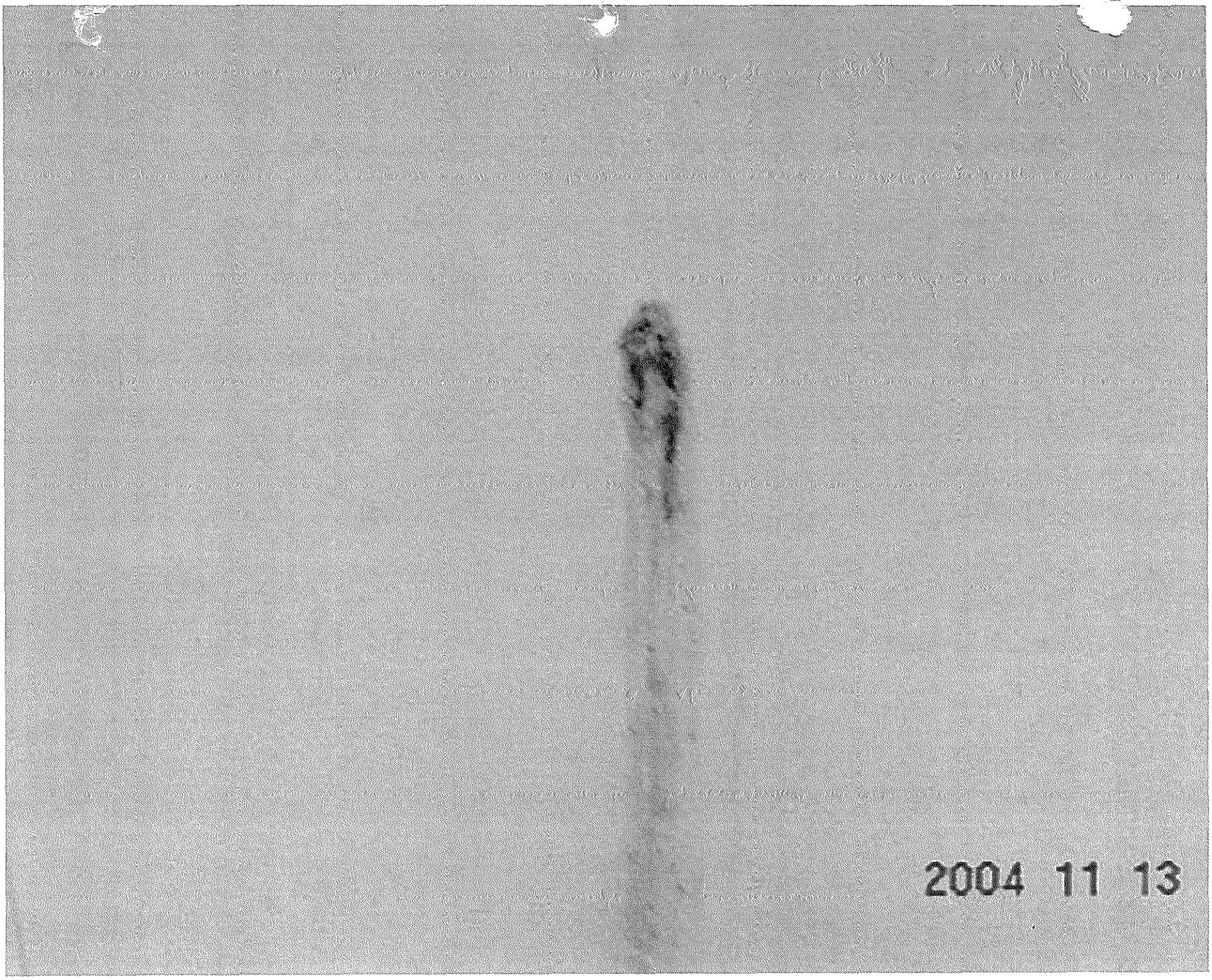
Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01, 04 - 08	The reported conditions reflect deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	
02	The reported condition is debris on the surface of the liner and does not reflect degradation.	✓	
03	The welds appear to be remnants from previous attachments, most likely scaffolding brackets used during construction. The weld surface is irregular and thus the coating will not bond well. The corrosion is minor and does not reflect any significant loss of liner material. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

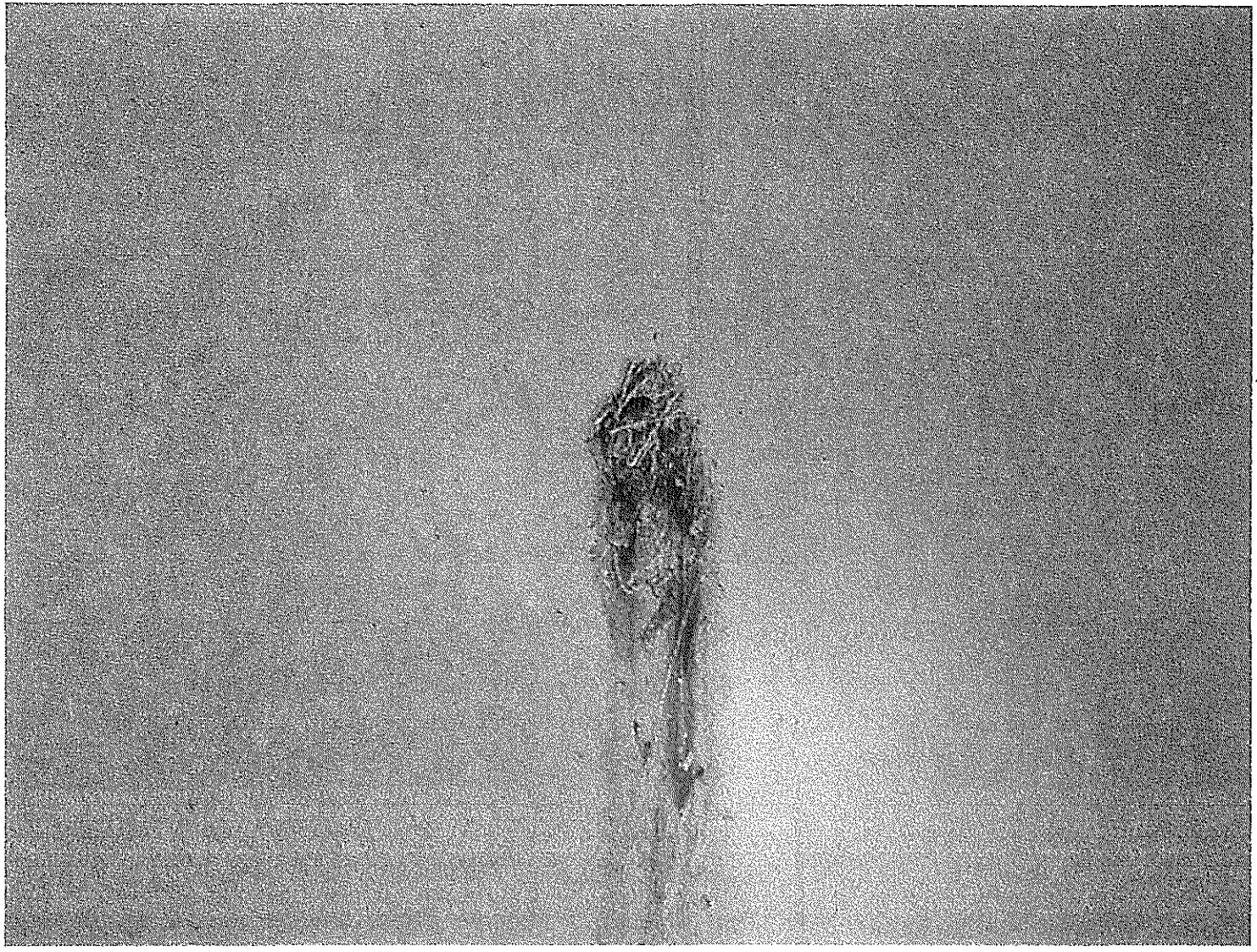
RESPONSIBLE ENGINEER: _____ DATE 7/13/00



LINER INSPECTION ZONE IWE-134-004
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

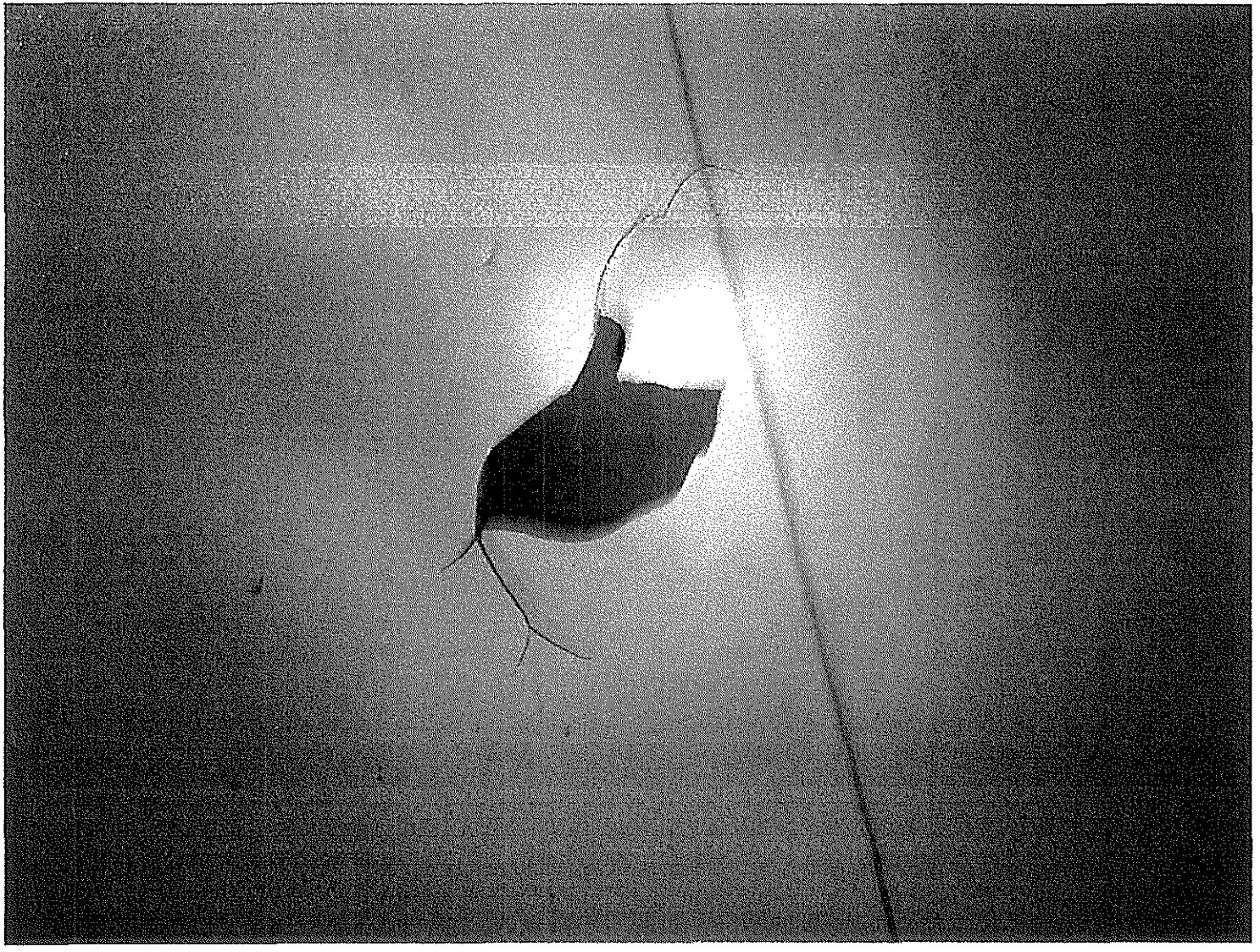
XX -DENOTES ITEM NUMBER ON OBSERVATION FORM.


2004 11 13



IWE-134-004

00030914.jpg



IWE-134-004

00030915.jpg

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-001	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-22		X		X		X		X		X		X		X		X	3/10/2000

EXAMINATION PERFORMED BY: Donald S. Adams *DATE* 3/10/2000

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-002	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-23		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: _____ *DATE* 3/10/2000

Component or Zone Number: IWE-DOME-002

Item No.	Description	Photo
01	One (1) area approximately 4"x 4" located in the 4th top course from the left shows delamination and peeling in topcoat. Primer intact.	None
02	One (1) area approximately 4"x 5" located in the 2nd course from the left in the middle courses shows delamination and peeling in topcoat. Checking around removed area. Primer intact. Checking classified as ASTM D660, Mosaic Grade 8.	None

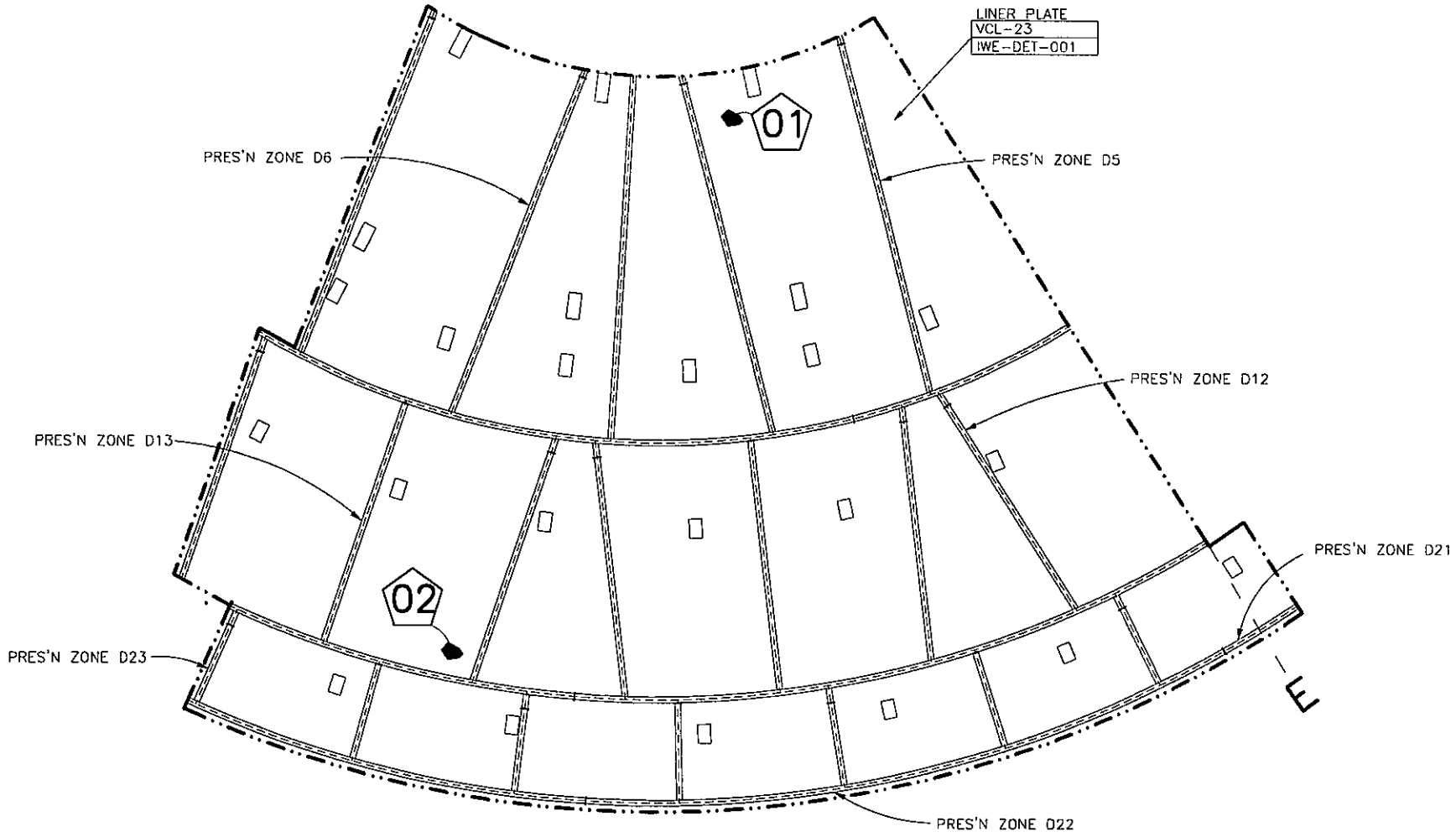
EXAMINATION PERFORMED BY: Donald A. Dr _____ *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-DOME-002

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01, 02	The reported conditions reflect deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	

RESPONSIBLE ENGINEER: [signature] DATE 7/13/00



LINER INSPECTION ZONE IWE-DOME-002

VIEW LOOKING UP

XX -DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-003	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-24		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: Donald S. Down *DATE* 3/10/2000

Component or Zone Number: IWE-DOME-003

Item No.	Description	Photo
01	Five (5) areas approximately 2-sq. in. located in the 2nd course from the right in the lower courses shows delamination and peeling in topcoat. Checking around removed area. Primer intact. Checking classified as ASTM D660, Mosaic Grade 8.	None

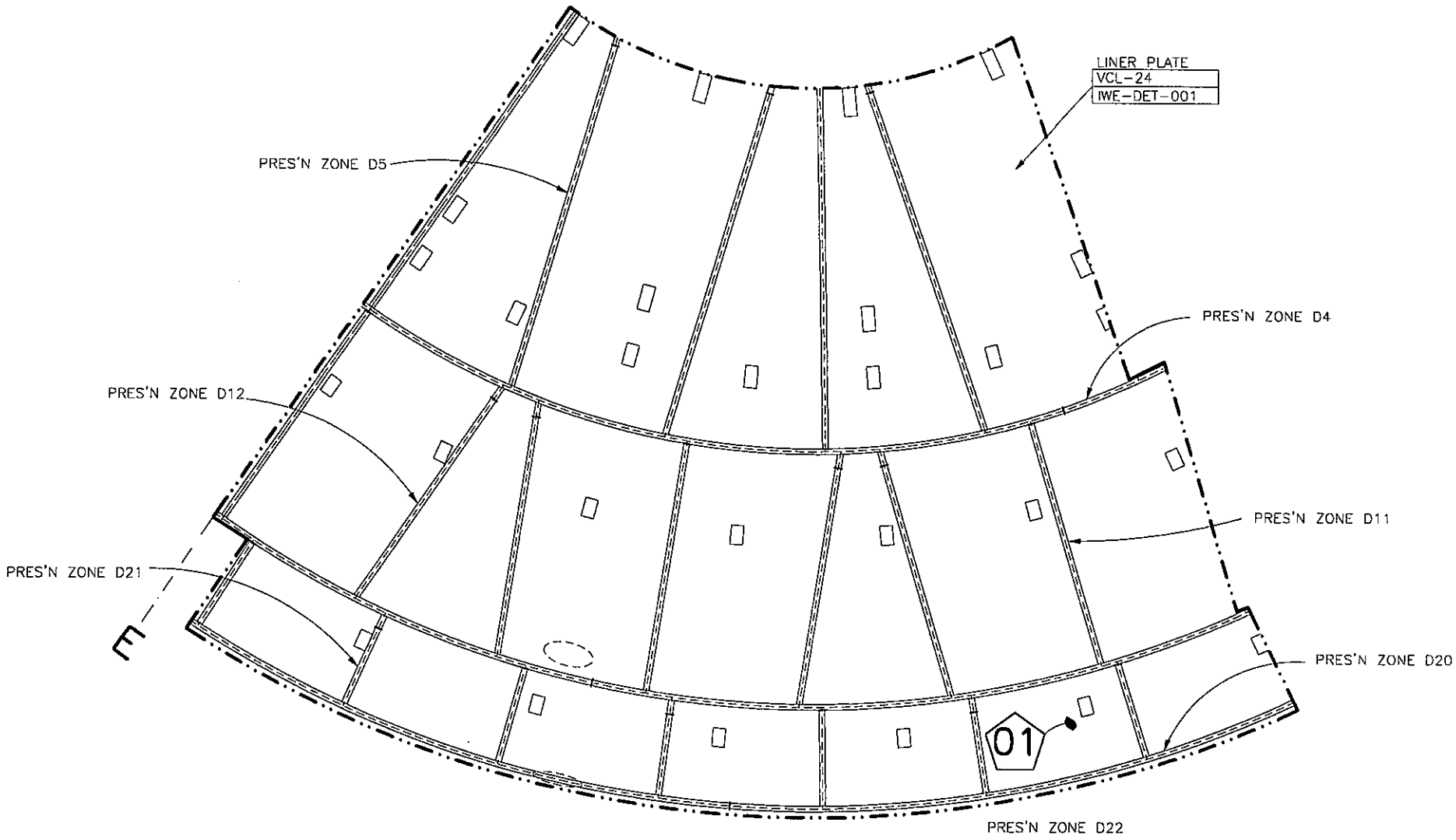
EXAMINATION PERFORMED BY: Donald A. Adams *DATE* 3/10/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-DOME-003

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01	The reported conditions reflect deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor these conditions.	✓	

RESPONSIBLE ENGINEER: _____ DATE 7/13/00



LINER INSPECTION ZONE IWE-DOME-003

VIEW LOOKING UP

XX -DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-004	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-25		X		X		X		X		X		X		X		X	3/10/2000

EXAMINATION PERFORMED BY: Donald S. Adams *DATE* 3/10/2000

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-005	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-26		X		X		X		X		X		X		X		X	3/10/2000

EXAMINATION PERFORMED BY: Donald A. Dorn *DATE* 3/10/2000

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-006	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-27		X		X		X		X		X		X		X		X	3/10/2000

EXAMINATION PERFORMED BY: Ronald S. Thorn *DATE* 3/10/2000

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recording Conditions																Initial and Date
	Nicks, Gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
IWE-DOME-007	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
VCL-28		X		X		X		X	X			X	X			X	3/10/2000

EXAMINATION PERFORMED BY: Donald S. Storm ***DATE*** 3/10/2000

Component or Zone Number: IWE-DOME-007

Item No.	Description	Photo
01	One (1) area approximately 2-sq. ft. located in the left outside course shows delamination and peeling in topcoat. Checking around removed area. Primer intact. Checking classified as ASTM D660, Mosaic Grade 8.	None

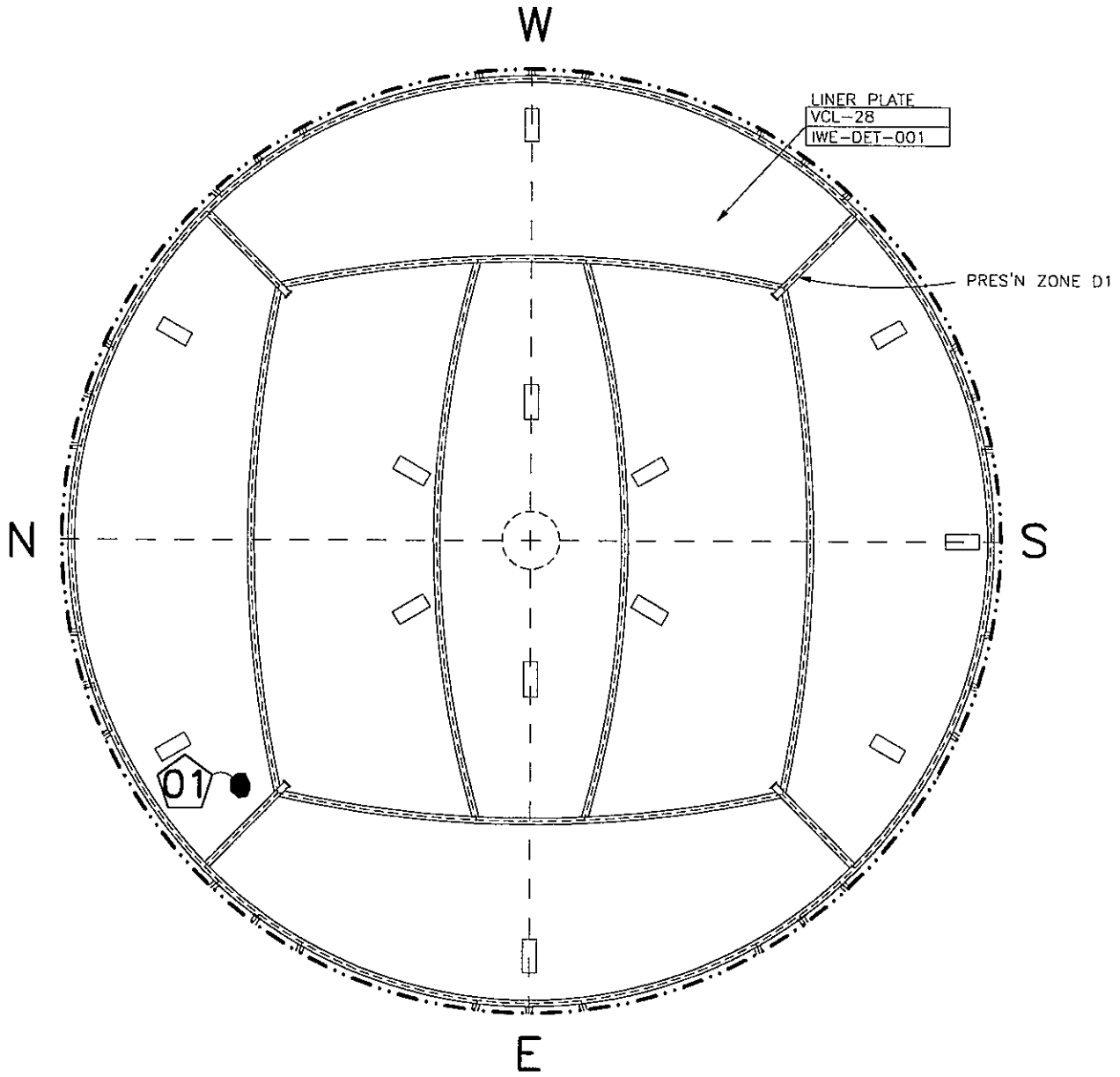
EXAMINATION PERFORMED BY: _____ *DATE* 2/16/2000

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number: IWE-DOME-007

Item No.	Discussion	Acceptable	Additional Eval. Req'd.
01	The reported condition reflects deterioration of the coating (loss of bond between the primer and topcoat). Since the primer is intact there is no reason to suspect any degradation of the liner. This condition is not significant relative to Containment structural integrity. Examination at the next regular inspection period is sufficient to monitor this condition.	✓	

RESPONSIBLE ENGINEER: B A Ellis DATE 7/13/00



LINER INSPECTION ZONE IWE-DOME-007

VIEW LOOKING UP

XX -DENOTES ITEM NUMBER ON OBSERVATION FORM.

ATTACHMENT E
EXAMINATION REVIEW AND COMPLETION

RESPONSIBLE ENGINEER REVIEW

The following steps will be completed by the Responsible Engineer after completion of the examinations. Each step will be initialed and dated as they are completed.

CAS for BAE E1. EVALUATE the completed examinations.

N/A E2. COMPARE current examination results with previous examination results if available.

CAS for BAE E3. When General Visual Examination results exceed the recording criteria in Section 10.0 determine if the condition warrants further evaluation. If the condition is acceptable, document the basis for the determination on Attachment D.

CAS for BAE E4. When a condition requires further evaluation perform the following:

E4.1 INITIATE an Engineering Request (ER) to evaluate the current results. Reference the previous results in the request.

E4.2 INITIATE a Condition Report.

E4.3 RECORD the component number, the examination type and the ER number on Attachment F.

E4.4 LIST any additional examinations or corrective actions that are required as a result of this examination in the space provided below. Additional sheets may be added to this surveillance.

Comments:

_____

_____

_____

_____

_____

Chris Durand for Bryan Erler
Responsible Engineer/Date

ATTACHMENT E
EXAMINATION REVIEW AND COMPLETION (cont'd)

SURVEILLANCE COMPLETION

The following steps will be completed by the examiner that performed the examinations, a lead examiner or the Responsible Engineer after the Responsible Engineer review above has been completed. Each step will be initialed and dated as they are completed.

CAS	E5.	VERIFY that the General Visual examinations have been reviewed and approved by the Responsible Engineer.
*	E6.	VERIFY that all Engineering Evaluations have been completed and copies are attached to this procedure.
CAS	E7.	ATTACH all completed Attachment C General Visual Examination Checklists to this procedure.
CAS	E8.	Forward the completed documentation package to the ISI Coordinator.

* Evaluation is documented via CRS 200001209. This document is maintained within the condition reporting system and does not need to be included herein.

ATTACHMENT F
Engineering Evaluation Checklist

Component Number or Zone Number	Examination type	ER Number	Results	Date
VCL-02	Gen. Visual	CRS 2000 01209	Acceptable	
VCL-03	Gen visual	CRS 2000 01209	Acceptable	

Responsible Engineer Review Chris Ward for Bryan Erler Date 6/30/00

E

Category E-A, Liner General Visual Examination

Tab E - Inspector Certification Records

Examiner	Method	Level
Don Douin	General Visual	N/A

Attachment G
Personnel Qualification Form

Inspection and Test Personnel Certification Form For General Visual Examination

Name: DONALD S. DOLIN

Education: B.A. - MANAGEMENT - UNIV. OF IL.
(RESUME ATTACHED)

Experience: 20 YEARS WHICH INCLUDES ASME AUTA-NUCLEAR INSPECTOR, AUTA. INSPECTOR SUPERVISOR

Eye Exam: RESULTS 3/2/00 ACCEPTABLE

Results:

On the basis of the above, I have determined that the examiner is capable of performing General Visual Examinations as required by ASME Section XI 1992 Edition, 1992 Addenda, Subsection IWE, Subparagraph IWE-3510.1. This certification expires one year from the date of the eye examination.

BC Eng 3/7/00

Responsible Engineer Date

INSPECTION, SURVEILLANCE, AND CALIBRATION PERSONNEL CERTIFICATION	SARGENT & LUNDY ENGINEERS	VISION EXAMINATION RECORD

NAME DONALD S. DOLIN DIVISION MED

Near Distance

Natural or corrected near distance acuity in at least one eye, such that the individual is capable of reading JAEGER No. 1 letters at a distance of not less than 12 inches (30.5 cm), or an equivalent near distance test. Identify alternate near distance test, if used: _____

Acceptable Without Eye Correction	Acceptable With Eye Correction	Unacceptable
☐	☒	☐

Far Distance

Natural or corrected far distance vision of 20\30 or better, in at least one eye, Linear Snellen Scale.

Acceptable Without Eye Correction	Acceptable With Eye Correction	Unacceptable
☐	☒	☐

Color Perception

Ishihara color plates or an equivalent color vision test, which demonstrates the capability of distinguishing and differentiating contrast between colors.
Identify alternate color vision test, if used: _____

RED/GREEN DIFFERENTIATION	Acceptable	Unacceptable
	☒	☐

COMMENTS:

I hereby attest that the above visual examination results are correct and in accordance with my examination of this date. Any alternate tests utilized are the equivalent to or more stringent than the recommended test.

Name Bill Wyssman O.D.
Title optometrist
Address Carson Pirie Scott 1 South State street Chicago IL 60603
Signature Bill Wyssman
Date 3-8-00

Sargent & Lundy LLC

DONALD S. DOUIN
Senior Project Engineer
Construction Management Division

EDUCATION

University of Illinois
Bachelors in Management - 1986

PROFICIENCIES

Construction Management
Project & Outage Supervision
Contract Administration
Civil / Structural Field Engineering
Field Inspections & Material Testing
Nuclear Modifications & Design Change
Procurement, Material Control and Expediting
Codes and Standards Specialist
Computer Literate

RESPONSIBILITIES

Mr. Douin's primary responsibility is to coordinate and manage power generation and power services projects relating to construction engineering. These services include coordination with office engineering on design changes, interpretation of design documents with contractors, progress review, schedule monitoring and field quality.

EXPERIENCE

Mr. Douin has over 20 years of diverse experience that has enabled him to serve many worldwide clients successfully. His experience includes both nuclear and fossil power from procurement specifications development, bid process, construction management and contract administration, field engineering, nuclear modifications and design changes, spent fuel storage fabrication and construction, inservice inspection and quality control.

In the last year Mr. Douin has taken on many projects, which include providing containment liner examinations and assessment, nuclear RPV supports condition report resolution, fossil betterment construction services, material control support and asset recovery consulting.

In 1999 and 1997 Mr. Douin spent four months in El Salvador providing construction advisory services for the design and construction of an 18 MW and 12 MW diesel power plants. Representing the client as the owner's architect/engineer, Mr. Douin ensured proper civil/structural and mechanical construction processes and equipment installation were performed by the designers and local contractors for soils testing, concrete supply, placement, testing and inspection, steel erection, piping installation, diesel engine and generator placement. He provided quality oversight inspections for the client at the contractor's batch plant and fabrication facilities. He consulted the client during contractor meetings for design issues, project progress and schedule, manpower loading, change order and partial payment reviews, site quality, and safety.

In 1997 he completed an assignment in China as a Field Design Engineer for the design, construction and start-up of two fossil-fuel units. His duties included resolving turbine island and balance-of-plant system design and installation concerns through design and field change orders.

Sargent & Lundy LLC

DONALD S. DOUIN
Senior Project Engineer
Construction Management Division

Mr. Douin was a Procurement Engineer with S&L's project engineering and procurement departments for two Chinese fossil-fuel projects. He facilitated and expedited engineering, procurement and inspection processes, interfaces and activities with S&L vendors as well as steam turbine and boiler consortium members.

Mr. Douin was a Program Manager for two nuclear utilities inservice inspection program updates. His technical responsibilities included ensuring all applicable code, plant licensing, regulatory, detailed examination and testing rules, requirements and results revisions were accurately reflected in the program plan and referenced technical documents.

He also reviewed design, fabrication and construction specifications and drawings, and vendor documents relating to the VSC-24 cask system multi-assembly sealed basket and ventilated concrete cask components.

Mr. Douin spent five years in South Korea assigned to two projects in various capacities. His duties included supervising and consulting utility and engineering personnel in plant design and quality engineering. Specific areas of responsibilities were equipment and piping design, fabrication, inspection, and construction processes. Numerous trips were taken to Korean vendors to assess local manufacturing capabilities.

During the Korean owner support assignment he consulted utility staff in ASME Section III, NE metal containment and Div. 2 concrete containment design, fabrication, examination and inspection code application and requirements.

Mr. Douin was a field engineer responsible for the diesel generator maintenance and exhaust structural support modification for OPPD at Fort Calhoun 1.

Mr. Douin brought 12 years of experience to Sargent & Lundy which included serving as a third-party ASME Code Authorized Nuclear Inspector at three nuclear construction sites and one operating station. He reviewed design, procurement, fabrication and installation drawings, processes and documents for code compliance and installation.

Specific client experience includes:

NUCLEAR

- **Consolidated Edison**
  - Indian Point 2, 970MW
    Containment liner examination to Section XI, IWE requirements (2000).

- **American Electric Power Co.**
  - D. C. Cook 1 & 2, nuclear, 1100MW each
    Managed task to resolve condition reports for Unit 1 RPV supports and design change package input for Unit 2 containment liner and concrete repair. (1999 - 2000).

- **Wisconsin Public Service Co.**
  - Kewaunee nuclear 500MW
    Technical Specialist for Steam Generator Replacement Audit at

DONALD S. DOUIN
Senior Project Engineer
Construction Management Division

Westinghouse - Pensacola (1998)

- **Private Interest Group**
  - WNP 3, nuclear 1050MW
    Asset Recovery Study for potential material and equipment purchase (1998)

ComEd
- Dresden 2 and 3, nuclear, 632 MW each.
  Fire Protection Mod. Engineer (1997)
- Quad Cities 1 and 2, nuclear, 800 MW each.
  ISI Technical Consultant. (1995 to 1996)
- LaSalle 1 and 2, nuclear, 1132 MW each.
  ISI Program Update - Program Manager (1993 to 1994)

- **Consumers Power Company**
  - Palisades, nuclear, 730 MW.
    Dry Fuel Storage VSC-24 Fabrication Engineer (1994 – 1995)
    ISI Program Update-Program Manager (1993 - 1994)

- **Korea Electric Power Corporation (KEPCO) and Korea Power Engineering Company (KOPEC)**
  - Ulchin 3 and 4, nuclear, 900 MW each.
    Plant Design Material & Specification Consultant (KOPEC). (1991 to 1993)
  - Yonggwang 3 and 4, nuclear, 900 MW each.
    Quality Engineering Group Supervisor (KOPEC). (1990)
    Owner Support Manufacturing Engineer (KEPCO). (1989)

- **Omaha Public Power District**
  - Fort Calhoun 1, nuclear, 475 MW.
    Diesel Generator Modification Engineer (1988)

FOSSIL & OTHERS

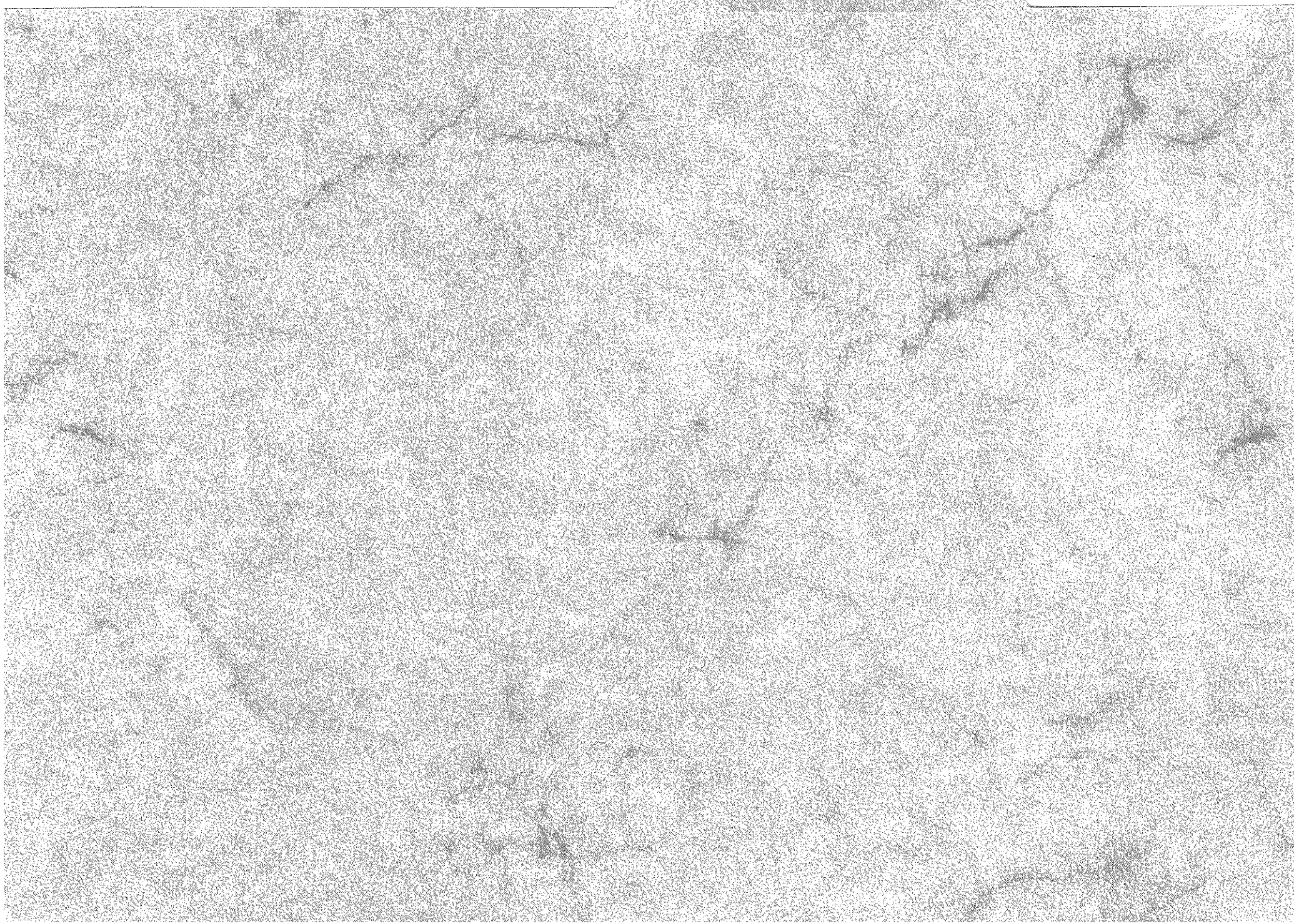
- **Cemento de El Salvador (CESSA)**
  - El Ronco, Units 1-3 & 4-5, diesel, 30MW.
    Construction Engineer (1999 & 1997)

- **Dominion Energy Construction Co.**
  - Kincaid 1 and 2, coal 650 MW each
    Construction Engineer (1998 -1999)

- **Zhejiang Provincial Electric Power Bureau**
  - Beilungang 3,4 and 5, coal 650MW each
    Procurement Material Control consulting at site (1998)

- **Jiangsu Ligang Electric Power Co. Ltd. Phase II**
  - Ligang 3 and 4, coal, 350 MW each.
    Field Design Engineer (1997)

- **Huaneng International Power Development Corp.**
  - Dandong 1 and 2, coal, 600 MW each.
  - Dalian 3 and 4, coal, MW each.
    Procurement Engineer (1996)



Category E-A, Liner General Visual Examination

Tab F - Inspection Procedures

GENERAL VISUAL EXAMINATION OF CONTAINMENT LINER FOR ASME SUBSECTION IWE

Prepared By:	Chris Sward	**Date:**	1/25/01
Reviewed By:	Steve Davis	**Date:**	1/25/01
Approved By:	Chris Sward	**Date:**	1/29/01

1.0 PURPOSE

The purpose of this procedure is to provide the requirements and instructions for performance of General Visual examinations of the accessible surfaces of the metallic shell liner.

This procedure applies to surface areas as defined in the Containment Inservice Inspection Program Plan for Category E-A Item 1.11.

2.0 DEFINITIONS

2.1 Bulging – a movement or displacement of the liner away from the backing concrete.

2.2 Arc strike – a loss or displacement of base metal caused during the weld process by the introduction of an electric current sufficient in intensity to change phase from solid to liquid. Arc strikes are rounded depressions in the base metal with some discoloration.

2.3 Corrosion – the deterioration of a metal due to an electro-chemical reaction with its environment

2.4 Dent – a displacement of the base metal, usually due to impact.

2.5 Gouge – a loss of base metal caused by impact with a foreign object.

2.6 Pitting – localized corrosion that generally produces sharply defined cavities in a metal surface.

2.7 Responsible Engineer- Registered Professional Engineer or knowledgeable individual as defined in ASME IWE-3510.1.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel performing General Visual Examination shall be cognizant of, and adhere to, all applicable plant safety policies and procedures throughout the execution of this surveillance.

3.2 When performing remote examinations using visual aids the examination method must be demonstrated that at the maximum distance the examination method can resolve the required characters or line thickness identified by the Responsible Engineer.

3.3 Any condition that may affect containment structural integrity or leak tightness identified as a result of the General Visual Examination shall be accepted by engineering evaluation or corrected by repair or replacement prior to performing the next Appendix J type A test.

3.4 When conditions exist in accessible areas that indicate the presence of or result in degradation to inaccessible areas an engineering evaluation shall be performed to evaluate the acceptability of the inaccessible areas. For each area identified the following shall be reported in the ISI summary report:

3.4.1 A description of the type and estimated extent of degradation, and the conditions that lead to the degradation;

3.4.2 An evaluation of each area, and the result of the evaluation;

3.4.3 A description of necessary corrective actions.

3.5 In the event the Acceptance Criteria as specified in this procedure is not met, promptly NOTIFY the utility's responsible engineer.

3.6 As allowed by 10CFR50.55a(b)(2)(x)(D) the following requirements will be used in lieu of IWE-2430:

For each flaw or area of degradation identified which exceeds acceptance standards, provide the following in the ISI Summary Report required by IWA-6000:

(a) A description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation;

(b) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components,

(c) A description of necessary corrective actions.

(d) If required, the number and type of additional examinations to ensure detection of similar degradation in similar components.

4.0 EQUIPMENT AND PERSONNEL

4.1 Measuring and Test Equipment

- Flashlight(s)
- Binoculars or instrument capable of distinguishing flaws as defined by the Responsible Engineer.
- Remote lighting, flood lights, etc.

4.2 Personnel

General Visual Examination personnel shall have a valid eye examination and be knowledgeable in inservice inspection of metallic liners. These requirements for the General Visual examination personnel shall be reviewed by the Responsible Engineer prior to the start of the examination.

4.3 Responsibilities

Per the requirements of ASME IWE-3510.1, the General Visual Examination is to be performed by, or under the direction of, the Responsible Engineer. The Responsible Engineer, therefore, is responsible for review of examiner qualifications, establishment of the General Visual Examination requirements, and review of the examination results.

The Visual Examiner is responsible for conduct of the examinations in accordance with this procedure.

5.0 PREREQUISITES

The Visual Examiner shall perform steps B1 thru B16 of Attachment B. Each step shall be initialed and dated as they are completed.

6.0 EXAMINATION

The Visual Examiner shall perform steps B17 thru B21 of Attachment B. Each step shall be initialed and dated as they are completed.

7.0 GENERAL VISUAL EXAMINATION REVIEW

The Responsible Engineer shall perform steps E1 thru E4 of Attachment E. Each step shall be initialed and dated as they are completed.

8.0 SURVEILLANCE COMPLETION

The lead examiner or Responsible Engineer shall perform steps E5 thru E8 of Attachment E after the Responsible Engineer review in steps E1 thru E4 has been completed. Each step shall be initialed and dated as they are completed.

9.0 DOCUMENTATION

The forms and checklists in this procedure shall be completed and compiled into a documentation package. The package shall be assembled and processed per the instructions in this procedure and the attachments.

10.0 ACCEPTANCE CRITERIA

The Visual Examiner shall use the following criteria to determine conditions which must be recorded for further evaluation by the Responsible Engineer.

Condition	Recording Criteria
Nicks, gouges, arc strikes	Nicks, gouges, arc strikes whose depth exceeds 10% of the metal thickness.
Metal cracking	All
Metal corrosion	All active corrosion. Note: Pitting may exist from original fabrication and construction and may be accepted provided there is no evidence of ongoing activity and it does not exceed 10% of the base metal thickness.
Blistering (coating)	Greater than size no. 4 and/or density exceeding "few" per ASTM D 714.
Checking (coating)	Greater than ASTM rating 6 per ASTM D 660.
Cracking (coating)	All, except where it can be definitively confirmed that the crack does not propagate from the base metal. Record degree of cracking per ASTM D 661.
Peeling (coating)	All. Record degree of peeling per ASTM D 772.
Rust staining	Any staining that is more than loose surface staining or that can be attributed to a source other than the containment component.

The General Visual examination shall be reviewed and approved by the Responsible Engineer. The examinations shall be reviewed for any signs of degradation that may affect the containment structural integrity or leak tightness.

11.0 REFERENCES

11.1 10CFR50 Appendix J.

11.2 ASME Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components, Subsection IWE and IWL, 1992 Edition, 1992 Addenda.

11.3 10CFR 50.55a(b)(2)(x), Code of Federal Regulations, Title 10, Part 50.55a, Alternative requirements for evaluation of examinations.

11.4 ASTM D 610-95, "Standard Test Method for Evaluating Degree of rusting on Painted Steel Surfaces."

11.5 ASTM D 660-93, "Standard Test Method for Evaluating Checking of Exterior Paints."

11.6 ASTM D 661-93, "Standard Test Method for Evaluating Degree of Cracking of Exterior Paints."

11.7 ASTM D 714-87, "Standard Test Method for Evaluating Degree of Blistering of Paints."

11.8 ASTM D 772-68, "Evaluating Degree of Flaking (Scaling) of Exterior Paints."

12.0 ATTACHMENTS

12.1 Attachment A General Visual Exam Requirements Sheet

12.2 Attachment B Prerequisites and Examination Instructions

12.3 Attachment C Demonstration of Remote Examination Equipment

12.4 Attachment D General Visual Inspection Checklist

12.5 Attachment E Examination Review and Completion

12.6 Attachment F Engineering Evaluation Checklist

ATTACHMENT A
General Visual Exam Requirements Sheet

SCOPE OF GENERAL VISUAL EXAMINATION:

Accessible surface areas of the containment liner as defined in the Containment ISI Program Plan and inspection drawings.

CONDITIONS TO BE EXAMINED FOR:

General conditions for all areas and components:

a. Nicks, gouges, arc strikes

b. Metal cracking

c. Metal corrosion

d. Rust staining

Painted or coated surfaces shall be examined for evidence of missing paint or coating, flaking, wear, erosion, blistering, peeling, discoloration, nicks or gouges that extend to the base metal and other signs which may indicate degradation of the substrate beneath the coatings.

Non coated surfaces shall be examined for evidence of cracking, discoloration, wear, pitting, excessive corrosion, arc strikes, gouges, surface discontinuities, dents, and other signs of surface irregularities.

PERSONNEL CERTIFICATION REQUIREMENTS:

Personnel performing General Visual Examinations shall be qualified by the Responsible Engineer. Completed Attachment G forms shall be attached to the documentation package.

ATTACHMENT A
General Visual Exam Requirements Sheet (cont'd)

LIGHTING REQUIREMENTS:

Flashlight or floodlights shall be used as required to perform the examinations. Illumination shall be verified by demonstrating that a 1/32" black line on a white background can be resolved.

EXAMINATION DISTANCE REQUIREMENTS:

Examinations shall be performed from floors, platforms and other permanent vantage points which provide the closest examination distance practical. Remote examination methods (e.g., binoculars) shall be used where access is not available for unaided visual examination. Remote examination methods require that distance and illumination be demonstrated and documented per Attachment C.

The Responsible Engineer has reviewed these requirements for applicability to

_____

and approves them for conduct of the General Visual Examination.

RESPONSIBLE ENGINEER: _____ DATE _____

These requirements have been reviewed with the examiners to ensure understanding.

REVIEW CONDUCTED BY: _____ DATE _____

GENERAL VISUAL EXAMINER _____ DATE _____

GENERAL VISUAL EXAMINER _____ DATE _____

GENERAL VISUAL EXAMINER _____ DATE _____

GENERAL VISUAL EXAMINER _____ DATE _____

GENERAL VISUAL EXAMINER _____ DATE _____

ATTACHMENT B
Prerequisites and Examination Instructions

PREREQUISITES

The following steps shall be completed by the lead examiner or Responsible Engineer prior to performing the examinations. Each step shall be initialed and dated as it is completed.

_____ B1. REVIEW the ISI Program Plan to identify the components/areas to be examined.

_____ B2. RECORD the Component number or Zone Number on Attachment D.

_____ B3. REVIEW the inspection criteria on Attachment A with the Responsible Engineer prior to the start of the examinations.

_____ B4. OBTAIN copies of the containment ISI drawings (e.g., general arrangement, zone and detail drawings) which define the components and boundaries for inspection and verify that they are the latest revision.

_____ B5. REVIEW the containment ISI drawings for the areas which require examination.

_____ B6. REVIEW the examination scope with Radiation Protection and Work Planning to determine the required support to perform the examinations and Work Area Permit required.

_____ B7. IDENTIFY any areas if known which require scaffold.

_____ B8. IDENTIFY any areas if known which require insulation removal.

_____ B9. IDENTIFY the equipment required to perform the examinations. (i.e.flashlights, flood lights, binoculars, cameras etc.)

_____ B10. IDENTIFY the number of required inspectors to complete examinations in the required time frame.

_____ B11. OBTAIN copies of the Personnel Qualification Forms (Att. G) of the inspectors that will perform the examinations and forward to the Responsible Engineer for review and acceptability. Have Responsible Engineer sign the form when complete.

ATTACHMENT B
Prerequisites and Examination Instructions (cont'd)

_____ B12. ATTACH copies of the certification forms to the surveillance documentation package.

_____ B13. VERIFY that personnel assigned to perform this surveillance are familiar with the contents of this procedure and associated attachments and checklists.

_____ B14. VERIFY the Authorized Nuclear Inservice Inspector (ANII) has been notified of the examinations that are scheduled to be performed in accordance with this surveillance procedure. The ANII shall be given ample notice so he may have the opportunity to establish witness points.

_____ B15. VERIFY that certification records for personnel performing examinations and testing have been provided to the ANII for review.

_____ B16. When required DEMONSTRATE the visual and lighting requirements for performing the remote examinations to the ANII, Attachment C.

ATTACHMENT B
Prerequisites and Examination Instructions (cont'd)

EXAMINATION

The following steps shall be completed by the examiner performing the examinations. Each step shall be initialed and dated as they are completed.

_____ B17. REVIEW the General Visual Exam Requirements Sheet (Attachment A) with the Responsible Engineer. After all questions are answered sign the sheet as the Examiner.

_____ B18. PERFORM the general visual examination on the areas specified on the drawings per the requirements of Attachment A.

_____ B19. RECORD the general visual examination results on the Attachment D data sheets. Record conditions exceeding the recording criteria of Section 10.0 on the observation form in Attachment D. Additional information that meets the acceptance criteria can be recorded in the comments section of the attachment.

CAUTION

If areas are identified with indications prior to completing all of the required examinations for this surveillance, SIGN the data sheets for those areas and immediately forward to the Responsible Engineer for disposition.

_____ B20. SIGN the Attachment D data sheets and attach the sheets to surveillance documentation package.

_____ B21. SUBMIT the completed checklists to the Responsible Engineer for review.

ATTACHMENT C
Demonstration of Remote Examination Equipment

Type of equipment used _____

Maximum Examination Distance: _____

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.

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 _____

Demonstration performed by: _____ Date _____

Demonstration witnessed by: _____ Date _____

ATTACHMENT D
General Visual Examination Checklist

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

Component Number or Zone Number	Recordable Conditions																Initial and Date
	Nicks, gouges, arc strikes		Metal Cracking		Metal Corrosion		Blistering (coating)		Checking (coating)		Cracking (coating)		Peeling (coating)		Rust staining		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	

EXAMINATION PERFORMED BY: _____ DATE _____

ATTACHMENT D (cont.)

Observations

Component or Zone Number:_____

Item No.	Description	Photo

EXAMINATION PERFORMED BY: _____ DATE _____

ATTACHMENT D (cont.)
Responsible Engineer's Review

Component or Zone Number:_____

Item No.	Discussion	Acceptable	Additional Eval. Req'd.

RESPONSIBLE ENGINEER: _____ DATE _____

ATTACHMENT E
EXAMINATION REVIEW AND COMPLETION

RESPONSIBLE ENGINEER REVIEW

The following steps will be completed by the Responsible Engineer after completion of the examinations. Each step will be initialed and dated as they are completed.

_____ E1. EVALUATE the completed examinations.

_____ E2. COMPARE current examination results with previous examination results if available.

_____ E3. When General Visual Examination results exceed the recording criteria in Section 10.0 determine if the condition warrants further evaluation. If the condition is acceptable, document the basis for the determination on Attachment D.

_____ E4. When a condition requires further evaluation perform the following:

E4.1 INITIATE an Engineering Request (ER) to evaluate the current results. Reference the previous results in the request.

E4.2 INITIATE a Condition Report.

E4.3 RECORD the component number, the examination type and the ER number on Attachment F.

E4.4 LIST any additional examinations or corrective actions that are required as a result of this examination in the space provided below. Additional sheets may be added to this surveillance.

Comments:

_____

_____

_____

_____

_____

_____
Responsible Engineer/Date

ATTACHMENT E
EXAMINATION REVIEW AND COMPLETION (cont'd)

SURVEILLANCE COMPLETION

The following steps will be completed by the examiner that performed the examinations, a lead examiner or the Responsible Engineer after the Responsible Engineer review above has been completed. Each step will be initialed and dated as they are completed.

_____ E5. VERIFY that the General Visual examinations have been reviewed and approved by the Responsible Engineer.

_____ E6. VERIFY that all Engineering Evaluations have been completed and copies are attached to this procedure.

_____ E7. ATTACH all completed Attachment C General Visual Examination Checklists to this procedure.

_____ E8. Forward the completed documentation package to the ISI Coordinator.

ATTACHMENT F
Engineering Evaluation Checklist

Component Number or Zone Number	Examination type	ER Number	Results	Date

Responsible Engineer Review _____ Date _____

Attachment G
Personnel Qualification Form

Inspection and Test Personnel Certification Form For General Visual Examination

Name: _____

Education: _____

_____

Experience: _____

_____

Eye Exam: _____

_____

Results: _____

_____

On the basis of the above, I have determined that the examiner is capable of performing General Visual Examinations as required by ASME Section XI 1992 Edition, 1992 Addenda, Subsection IWE, Subparagraph IWE-3510.1. This certification expires one year from the date of the eye examination.

_____

Responsible Engineer Date

Appendix II

APPENDIX II
Examination Category E-D, Moisture Barrier VT-3