	ENN NUCLEAR MANAGEMENT MANUAL	ENGINEERING STANDARD	ENN-EP-S-003 Revision 0
		IWL Visual Containment Inspection	Page 14 of 15

**Attachment 7.2  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3 / GENERAL VISUAL EXAMINATION**

IPEC Unit: 2 Interval Period: 1<sup>st</sup>/2<sup>nd</sup> Inspection Inspection Report No.: IP2-O5-IWL-001

Component No.: VCC - 06 Zone No: 003 Drawing No.: \_\_\_\_\_

Description: El. 43 – El. 68 Work Order No: IP2-03-29683

Equipment Used: Vulcan Dual Filament Lantern Limitations: Accessible areas only

Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Abrasion or erosion degradation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pop outs and voids	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>2</b>
Scaling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Spalls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Corrosion staining on concrete surfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cracks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Exposed reinforcing steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>1</b>
Deteriorating of concrete coating, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Excessive corrosion of the exposed embedded metal surfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Detached embedment or loose bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>3,5</b>

(Note: Sketches or pictures may be attached to clarify inspection areas and locations.)

Examined By: MARK GENTLEMAN II Date: 6/2/05 Examined By: GOPAL BHALLA Date: 6/2/05  
 Print/Signature/Level Print/Signature/Level

**Responsible Engineer Review:**

Acceptable : Yes  No  (Detailed VT-1 Examination Required Attachment 7.3)

Comments: \_\_\_\_\_

RE Signature Richard Drake Date: 6/9/05  
 Print/Signature/Level

Site Level III Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print/Signature/Level

ANII Review: Not Applicable Date: \_\_\_\_\_  
 Print/Signature

IWL VISUAL CONTAINMENT INSPECTION  
 Indian Point Unit No. 2

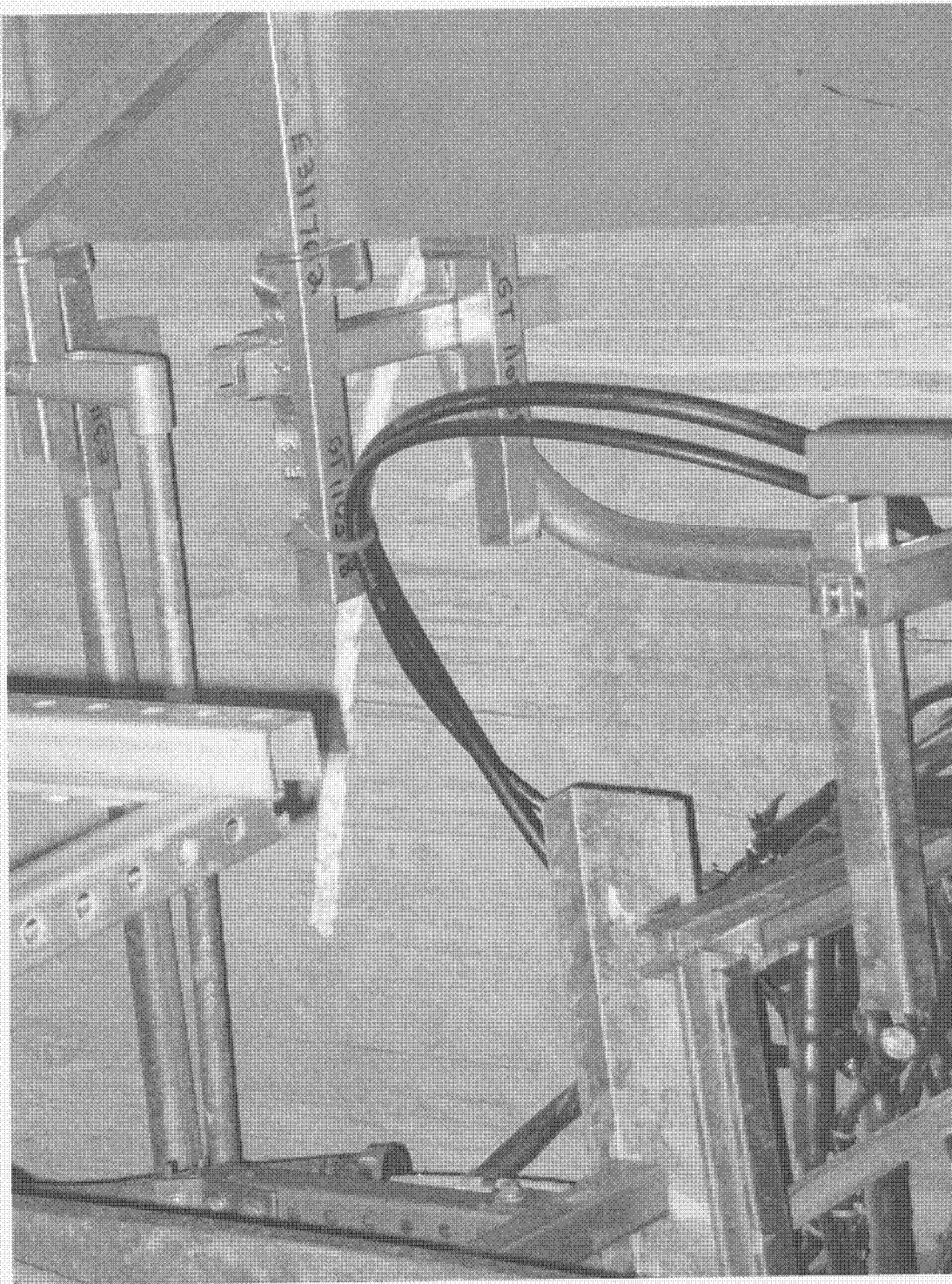
IP2 - CISI - XXX  
 Rev. 0  
 Date: 5/10/2005  
 Page: X of Y

**FORM VT - 3C**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT - 3 /GENERAL VISUAL EXAMINATION**

STATION/UNIT: IPEC / Indian Point No. 2 COMPONENT NO. : VCC - 06

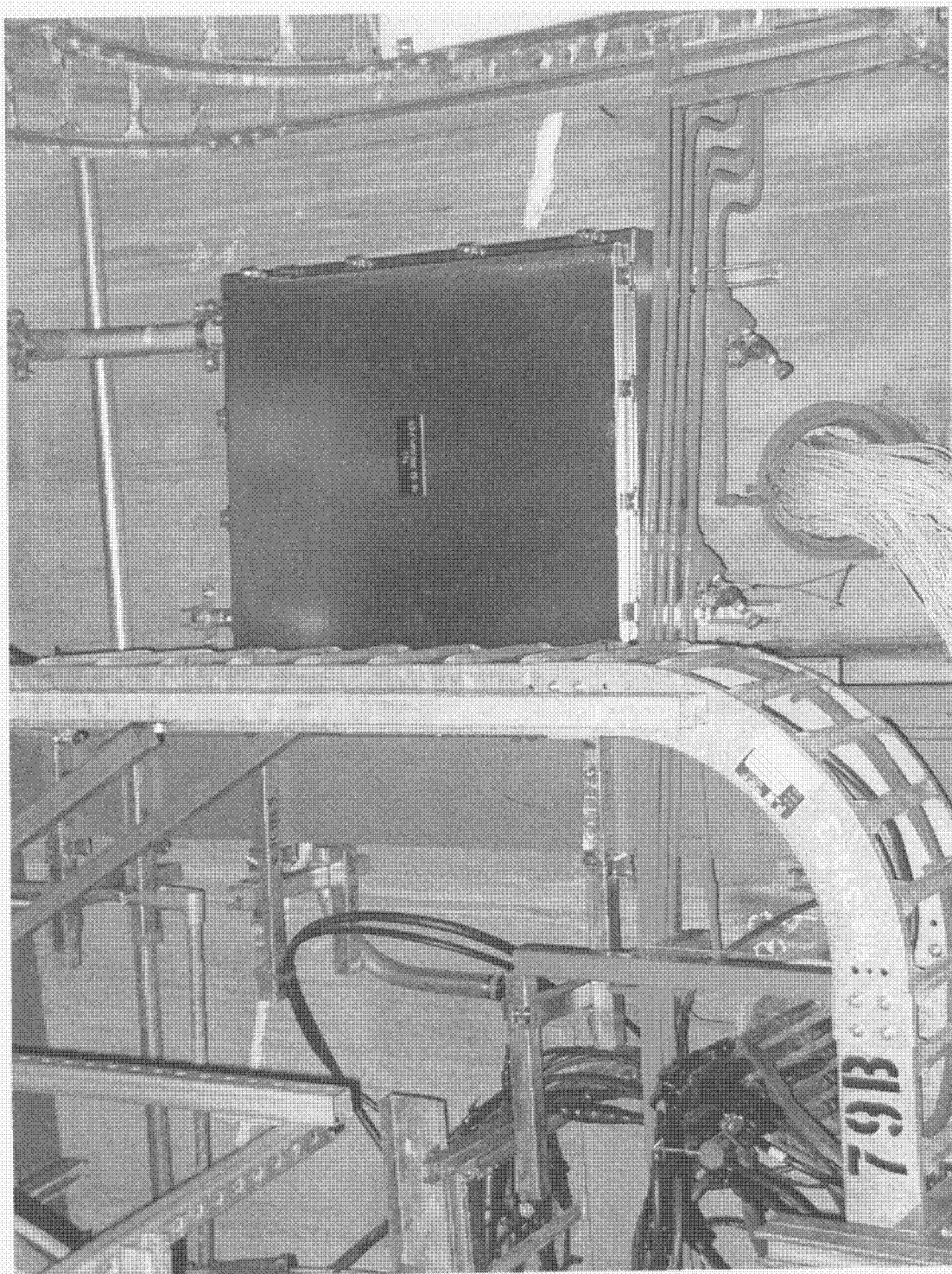
ZONE No: 003

No.	Comment	Initials
1	Two pieces of embedded steel appearing to be cadweld splices are exposed at the surface of the concrete. Slight corrosion is evident but no streaking or staining of the concrete. This area has remained unchanged since previous inspection.	<i>WDF</i>
2	A small surface defect (approx. 2' dia) and several unfilled form tie holes were noted but are insignificant relative to containment structural integrity. These areas have remained unchanged since previous inspection. See photo U2-035208	<i>WDF</i>
3	Caulk, possibly covering a crack, diagonally approx. 10' long. See photos U2-035204, U2-035205, and U2-035206	<i>WDF</i>
4	This area was examined from the floor level at El. 46'. The examination distances were a maximum of 20 feet. While this distance exceeds the limits for direct visual examination, it was too short for use of the binoculars due to their minimum focal length. Lighting levels using the flashlight exceeded the 50 foot-candle requirement. Approximately 10% of this zone was not visible for inspection by direct line of sight due to various obstructions.	<i>WDF</i>
5	General minor bugholes.	<i>WDF</i>



U2-035204

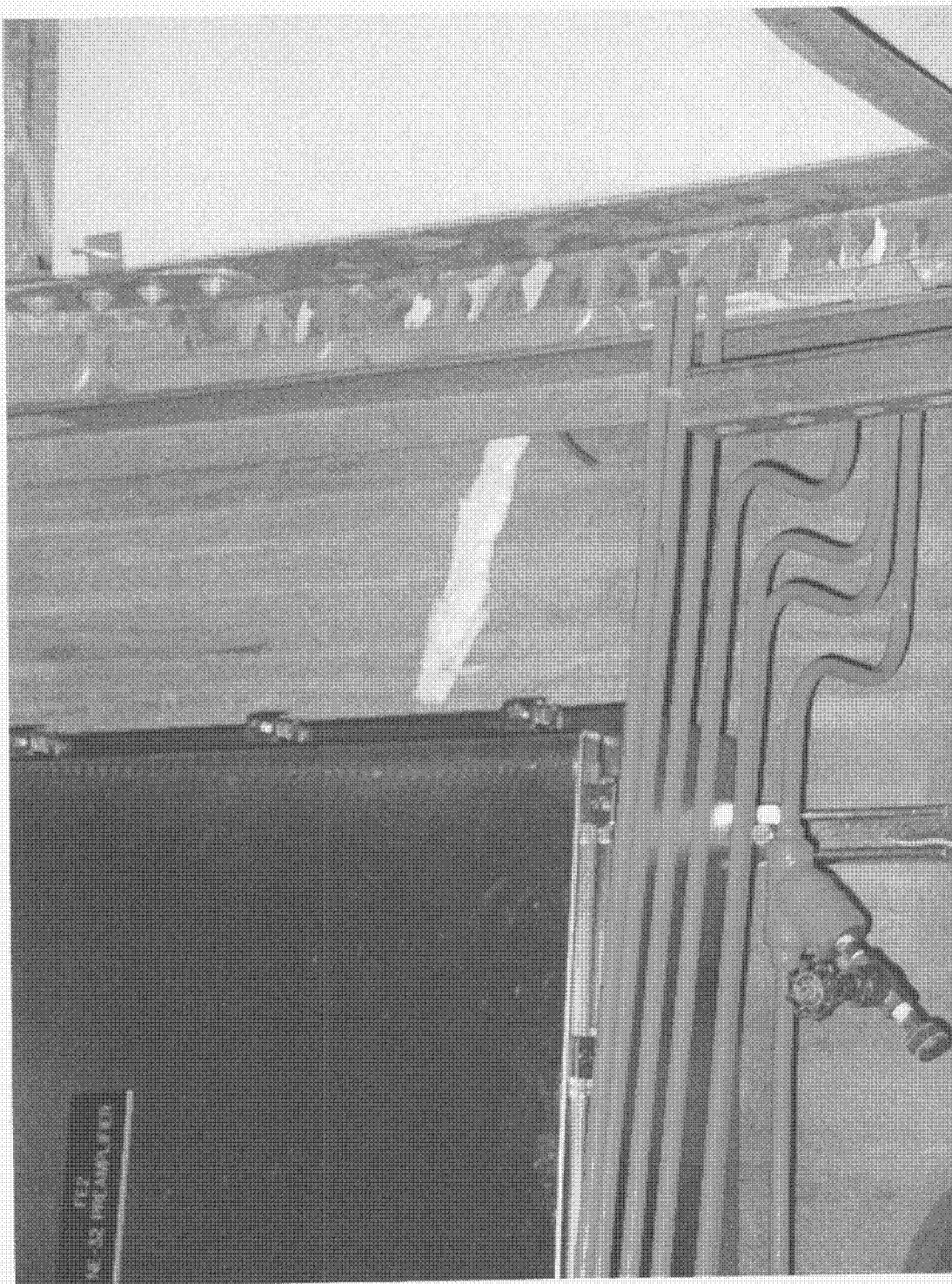
IWL-043-003



U2-035205

IWL-043-003

7913




U2-035206

IWL-043-003



U2-035208

IWL-043-003

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**Attachment 7.2**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-3 / GENERAL VISUAL EXAMINATION**

IPEC Unit: 2 Interval Period: 1<sup>st</sup>/2<sup>nd</sup> Inspection Inspection Report No.: IP2-O5-IWL-001

Component No.: VCC - 07 Zone No: 004 Drawing No.: \_\_\_\_\_

Description: El. 43 – El. 68 Work Order No: IP2-03-29683

Equipment Used: Vulcan Dual Filament Lantern Limitations: Accessible areas only

Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Abrasion or erosion degradation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pop outs and voids	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2,4
Scaling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Spalls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Corrosion staining on concrete surfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cracks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Exposed reinforcing steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Deteriorating of concrete coating, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Excessive corrosion of the exposed embedded metal surfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Detached embedment or loose bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4

(Note: Sketches or pictures may be attached to clarify inspection areas and locations.)

Examined By: MARK COTTLEMAN II Date: 6/2/05 Examined By: GOPAL BHALLA Date: 6/2/05  
 Print/Signature/Level Print/Signature/Level

**Responsible Engineer Review:**

Acceptable : Yes  No  (Detailed VT-1 Examination Required Attachment 7.3)

Comments: \_\_\_\_\_

RE Signature Richard Drake Date: 6/9/05  
 Print/Signature/Level

Site Level III Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print/Signature/Level

ANII Review: Not Applicable Date: \_\_\_\_\_  
 Print/Signature

IWL VISUAL CONTAINMENT INSPECTION  
 Indian Point Unit No. 2

IP2 - CISI - XXX  
 Rev. 0  
 Date: 5/10/2005  
 Page: X of Y

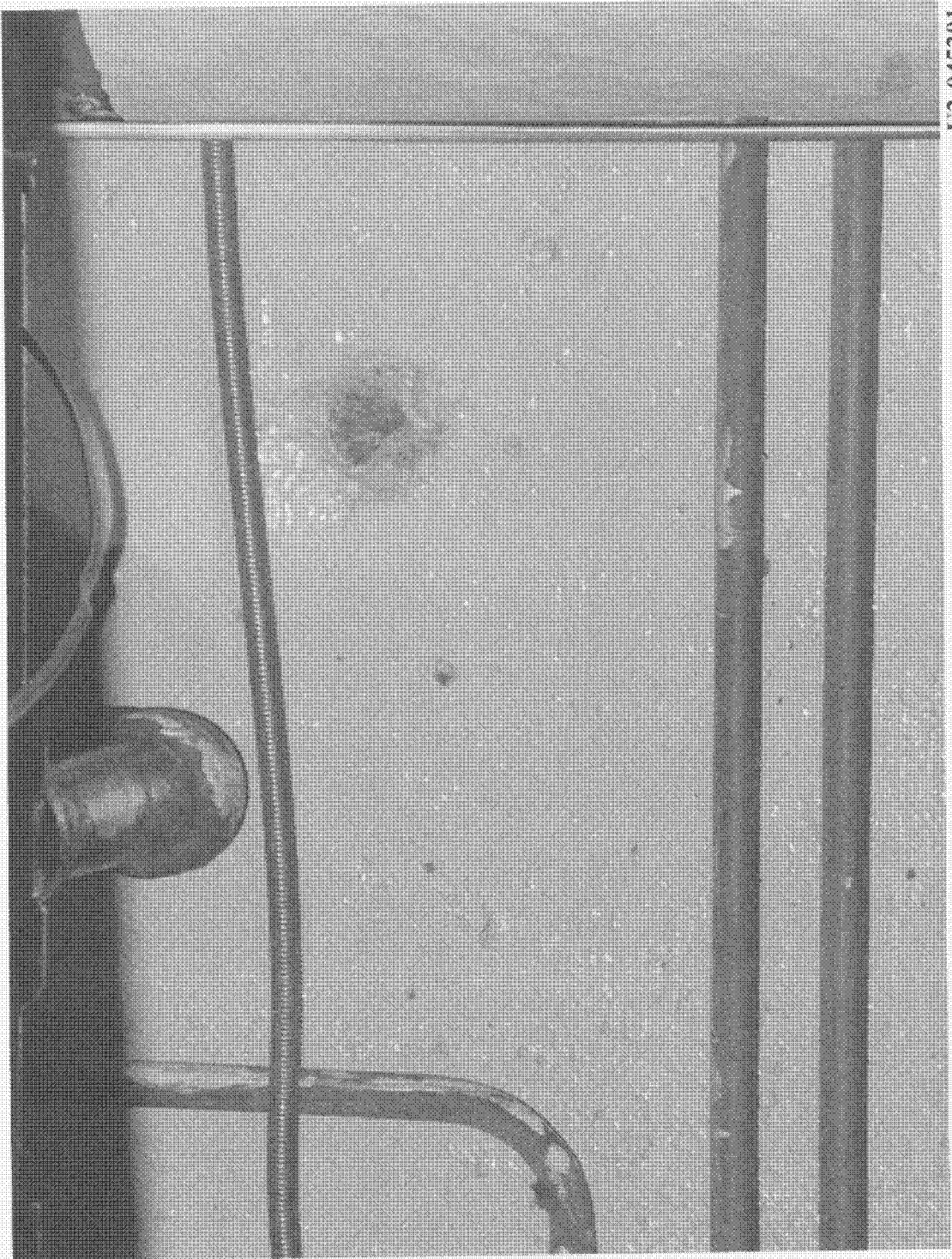
**FORM VT - 3C**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT - 3 /GENERAL VISUAL EXAMINATION**

STATION/UNIT: IPEC / Indian Point No. 2 COMPONENT NO. : VCC - 07

ZONE No: 004

No.	Comment	Initials
1	This area was examined from the catwalk at approx. El. 51' due to radiological contamination of the floors in this area. The examination distances were a maximum of 30 feet. While this distance exceeds the limits for direct visual examination, it was too short for use of the binoculars due to their minimum focal length. Lighting levels using the flashlight exceeded the 50 foot-candle requirement. Approximately 50% of the concrete surface was not visible for inspection by direct line of sight due to obstructions.	<i>WJF</i>
2	Several form tie holes were found not filled. These have remained unchanged since previous inspection and are not significant relative to containment structural integrity.	<i>WJF</i>
3	New spalling (approximately 2" dia) has occurred. See photo U2-045201	<i>WJF</i>
4	Popouts (3"-9" in size) and joint spalling. Upon further review, it was found that this area has been coated with a sealant for fire barrier 1A/74A. Dowcorning 3-6548 silicone foam appears to have shrank and separated. See photos U2-045202 and U2-045203	<i>WJF</i>



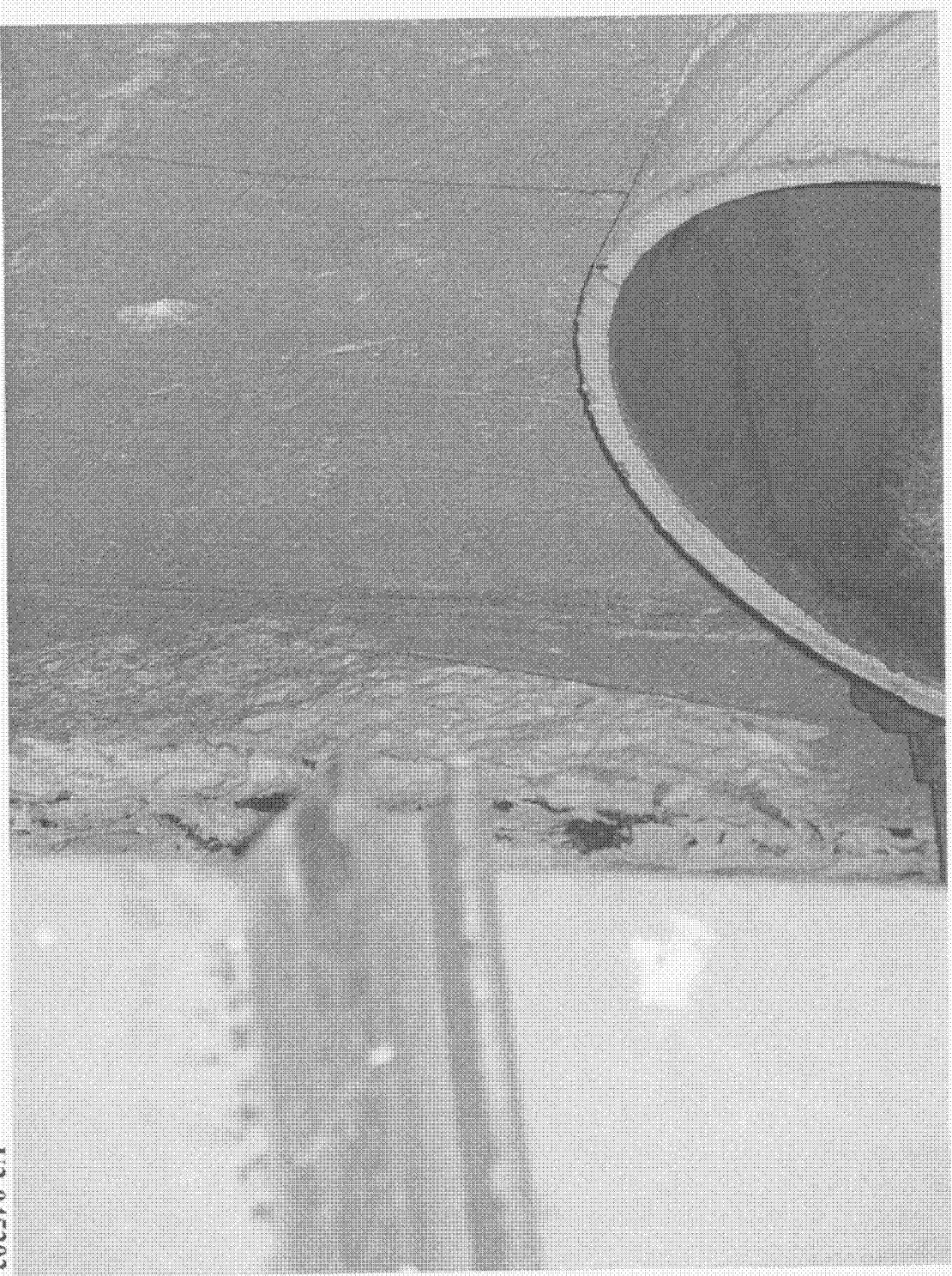


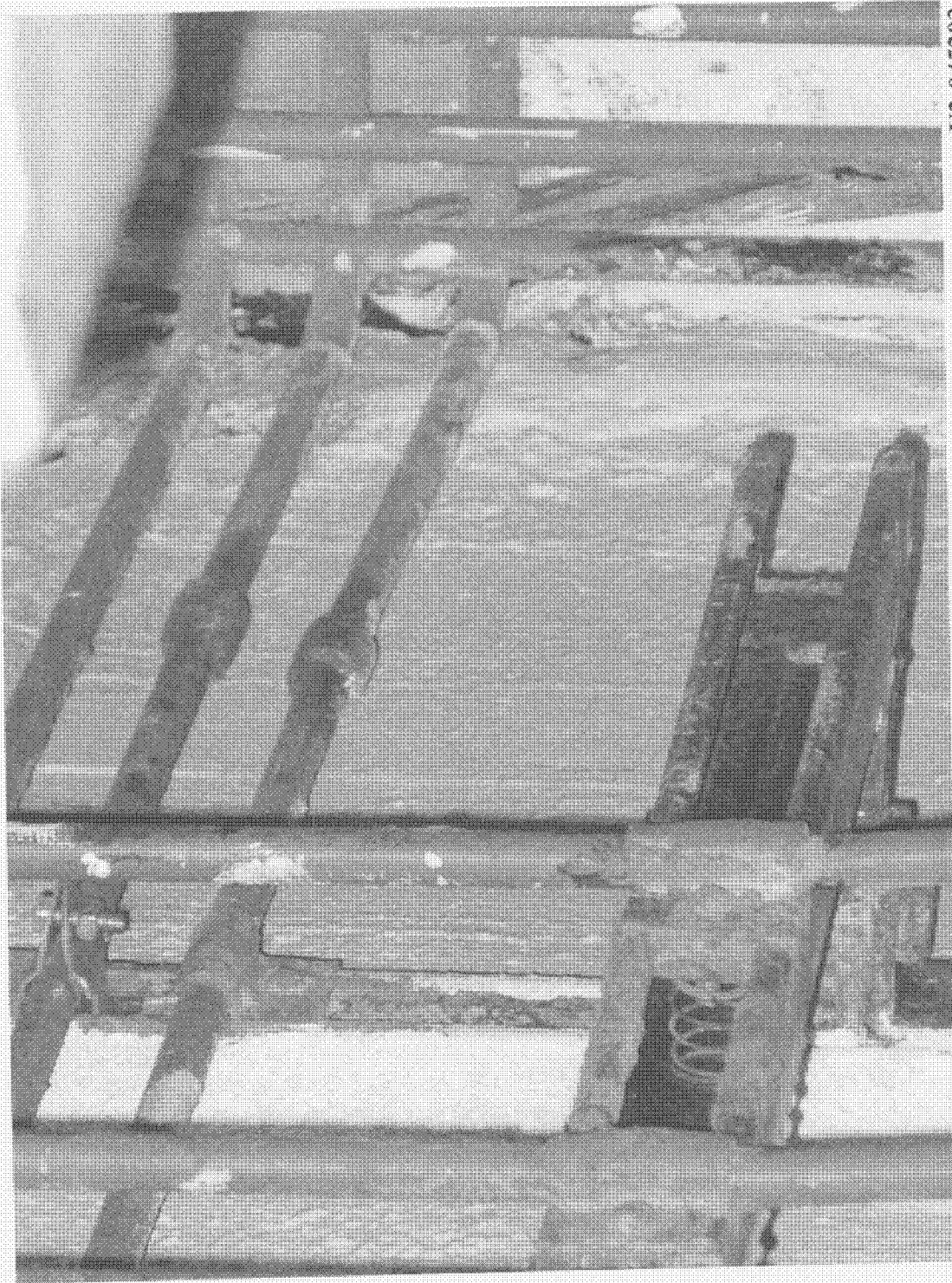
U2-045201

IWL-043-004

IWL-043-004


U2-045202





U2-045203

IWL-043-004

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**Attachment 7.2**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-3 / GENERAL VISUAL EXAMINATION**

IPEC Unit: 2 Interval Period: 1<sup>st</sup>/2<sup>nd</sup> Inspection Inspection Report No.: IP2-O5-IWL-001

Component No.: VCC - 08 Zone No: 001 Drawing No.: \_\_\_\_\_

Description: EI. 68 - EI. 88 Work Order No: IP2-03-29683

Equipment Used: Celestron Giant 20x80 Binoculars Limitations: Accessible areas only

Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>2</b>
Abrasion or erosion degradation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pop outs and voids	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Scaling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Spalls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Corrosion staining on concrete surfaces	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>3</b>
Cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>1</b>
Exposed reinforcing steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Deteriorating of concrete coating, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Excessive corrosion of the exposed embedded metal surfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Detached embedment or loose bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

(Note: Sketches or pictures may be attached to clarify inspection areas and locations.)

Examined By: MARK GENTLEMAN II Date: 6/2/05 Examined By: DRAGOS NUTA Date: 6/2/05  
 Print/Signature/Level Print/Signature/Level

**Responsible Engineer Review:**

Acceptable : Yes  No  (Detailed VT-1 Examination Required Attachment 7.3)

Comments: \_\_\_\_\_

RE Signature Richard Drake Date: 6/9/05  
 Print/Signature/Level

Site Level III Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print/Signature/Level

ANII Review: Not Applicable Date: \_\_\_\_\_  
 Print/Signature