



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-26  
 ZONE NUMBER: IWL-128-003 DRAWING NO.: 320860  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack	X				5
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids	X				7
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				2,3,4,8,9,10
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				3,4,6,7
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/26/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable : Yes  No  (VT-1C Examination Required)

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

Signature: *R. Namperumal* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**FORM VT-1C**  
 CONTAINMENT INSERVICE INSPECTION  
 RECORD OF VT-1C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-26  
 ZONE NUMBER: IWL-128-003 DRAWING NO.: 320860  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack	X				5
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids	X				7
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				2,3,4,8,9,10
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				3,4,6,7
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/26/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The leaching (comment #5) is not significant. The surface texture (comment #1) resulted from original construction and does not reflect degradation of the containment. Engineering evaluation is needed for all of the other comments, which relate to rebar corrosion.

Signature: *[Signature]* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

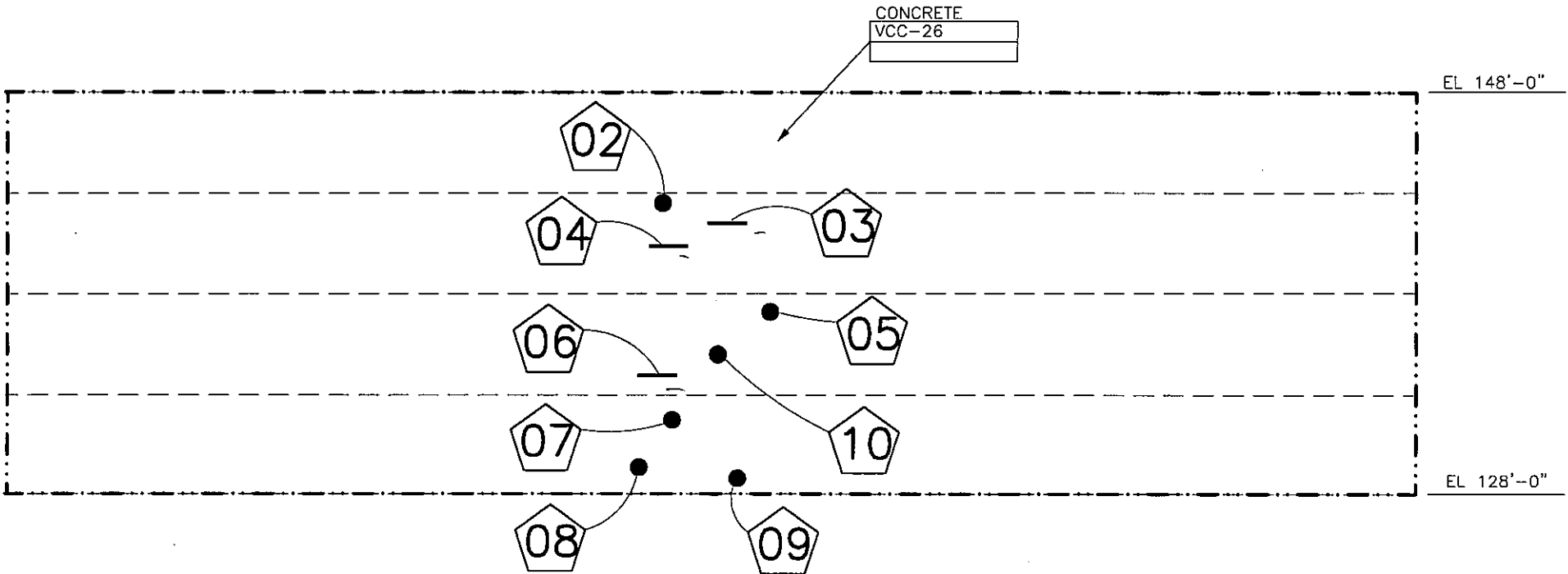
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FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-26

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	RN
2	Delamination of concrete cover over 2" length. See photo 00053105	RN
3	10"x4" concrete spall exposing cadweld sleeve. See photo 00053106 and 00053107	RN
4	2 closely spaced spalls about 8" in diameter about to pop out exposing steel. See photo 00053108	RN
5	leaching in the form tie hole patch area	RN
6	4"x2" opening in concrete exposing cadweld sleeve. See photo 00053110	RN
7	1" dia void in concrete exposing rebar. See photo 00053111	RN
8	concrete cover about to spall in a 6"square surface. See photo 00053112	RN
9	concrete cover about to spall in a 6"square surface	RN
10	concrete cover about to spall in a 6"square surface. See photo 00053109	RN



**CONCRETE INSPECTION ZONE IWL-128-003**  
 (EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)



-DENOTES COMMENT NUMBER ON INSPECTION FORM.



IWL-128-003

00053105.jpg



IWL-128-003

00053106.jpg



IWL-128-003

00053107.jpg



IWL-128-003

00053108.jpg





IWL-128-003

00053109.jpg



IWL-128-003

00053110.jpg



IWL-128-003

00053111.jpg



IWL-128-003

00053112.jpg



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-27  
 ZONE NUMBER: IWL-128-004 DRAWING NO.: 320861  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No: NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				3,5
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				3,4
7.1.1.j Coating deterioration				X	
Other		X			1,2

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/25/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

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

Signature: *R. Namperumal* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**FORM VT-1C**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-1C EXAMINATION**

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-27  
 ZONE NUMBER: IWL-128-004 DRAWING NO.: 320861  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				3,5
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				3,4
7.1.1.j Coating deterioration				X	
Other		X			1,2

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/25/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The surface conditions (comments #1 & #2) resulted from original construction and do not reflect degradation of the containment. The other conditions (comments #3, #4 & #5) involve rebar corrosion and require engineering evaluation.

Signature: *R. Namperumal* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

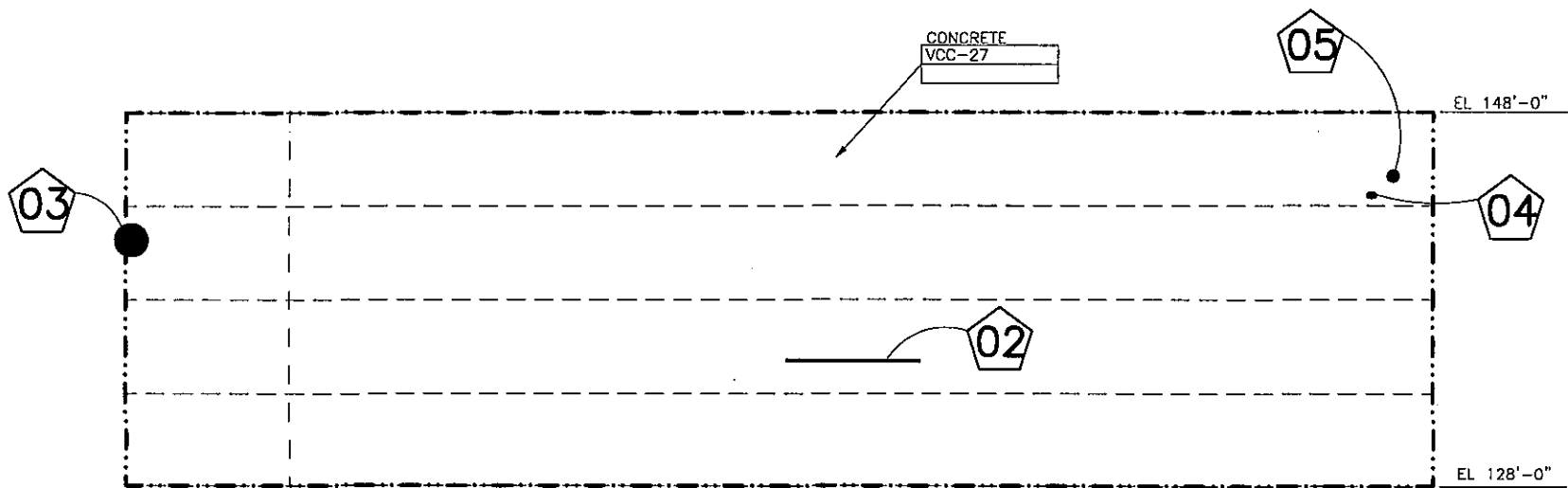
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FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-27

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	RN
2	Loss of mortar 1/4" deep over an area 2' x 6". See photo 00052624	RN
3	2" rebar steel exposure due to cover concrete spalling. See photo 00052625	RN
4	Exposed and corroded rebar. See photo 00060120	RN
5	The concrete has cracked & bulged in a small area that is likely to spall off. By comparison to other similar areas it is believed to be a cadweld or reinforcing steel which is corroded due to insufficient concrete cover. See photo 00060120	RN



**CONCRETE INSPECTION ZONE IWL-128-004**  
 (EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)

**XX** -DENOTES COMMENT NUMBER ON INSPECTION FORM.





IWL-128-004

00052624.jpg



IWL-128-004

00052625.jpg



IWL-128-004

00060120.jpg



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-28  
 ZONE NUMBER: IWL-128-005 DRAWING NO.: 320862  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel			X		
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal R. Namperumal DATE: 5/25/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

Comments: The surface texture resulted from original construction and does not reflect degradation of the Containment.

Signature: [Signature] Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-28

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	RW



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-29  
 ZONE NUMBER: IWL-128-006 DRAWING NO.: 320863  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack	X				2
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel			X		
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/25/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

Comments: The leaching is not significant. The surface texture resulted from original construction and does not reflect degradation of the containment.

Signature: *R. Namperumal* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

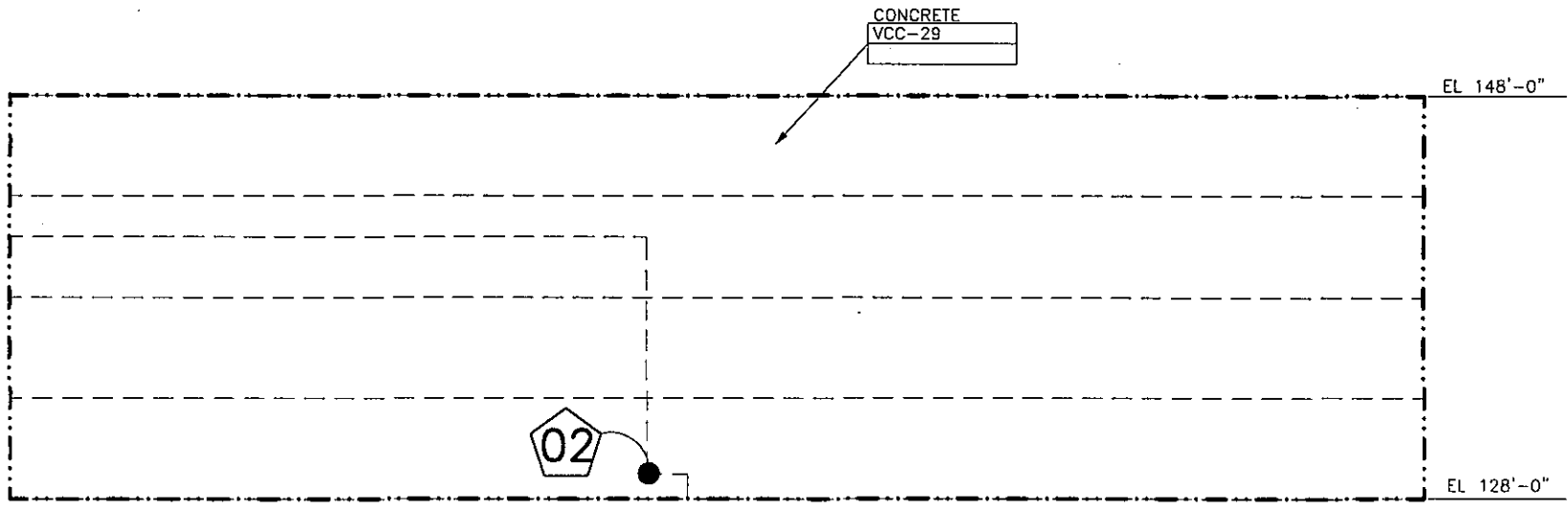
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FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-29

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	RF
2	White deposit (Efflorescence) from a 6" square area of concrete cover patch. See photo 00052610	DN



**CONCRETE INSPECTION ZONE IWL-128-006**  
(EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)

 -DENOTES COMMENT NUMBER ON INSPECTION FORM.





00052610.jpg

IWL-128-006



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-30  
 ZONE NUMBER: IWL-148-001 DRAWING NO.: 320864  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				5
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2,3,4
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *C. Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

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

Signature: *[Signature]* Date: 6/17/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**FORM VT-1C**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-1C EXAMINATION**

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-30  
 ZONE NUMBER: IWL-148-001 DRAWING NO.: 320864  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling	X				5
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2,3,4
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *Chris Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The surface texture (comment #1) resulted from original construction and does not reflect degradation of the Containment. The other conditions (comments #2 - #5) involve corroded reinforcing steel and require engineering evaluation.

Signature: *C. Sward* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

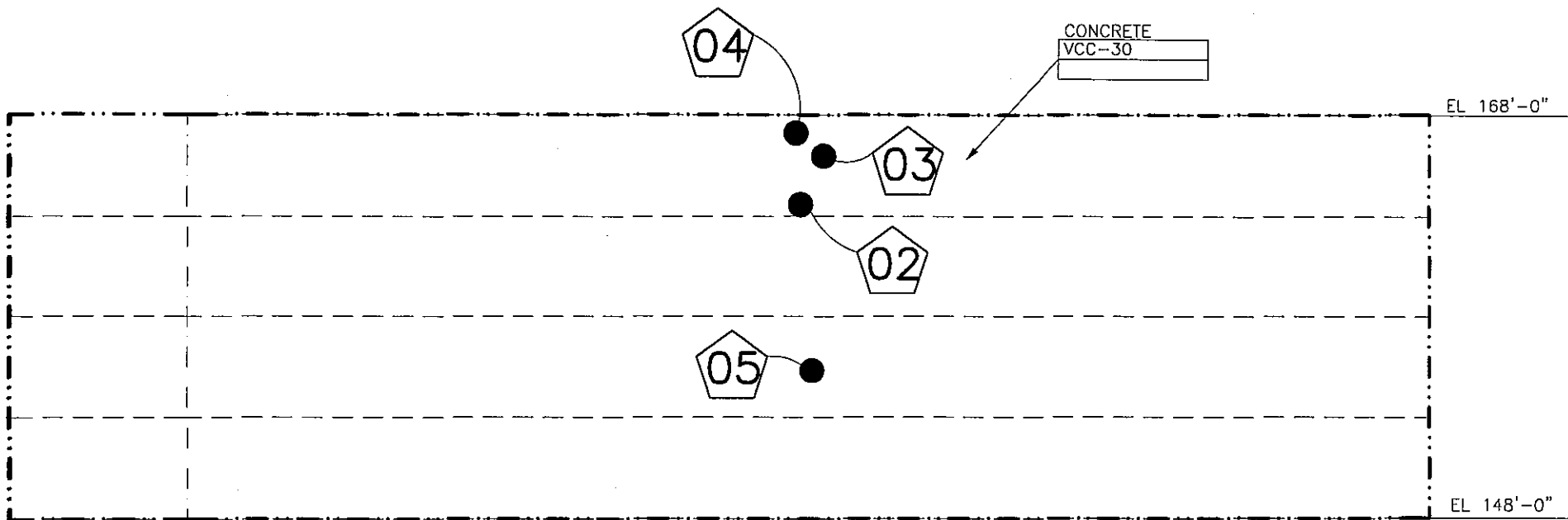
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FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-30

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	CAS
2	Cadweld exposed & corroded due to loss of concrete cover. See photo 00053146	CAS
3	Cadweld exposed & corroded due to loss of concrete cover. See photo 00053147	CAS
4	Cadweld exposed & corroded due to loss of concrete cover. See photo 00053147	CAS
5	The concrete has cracked & bulged in a small area that is likely to spall off. By comparison to other similar areas it is believed to be a cadweld or reinforcing steel which is corroded due to insufficient concrete cover. See photo 00053148	CAS



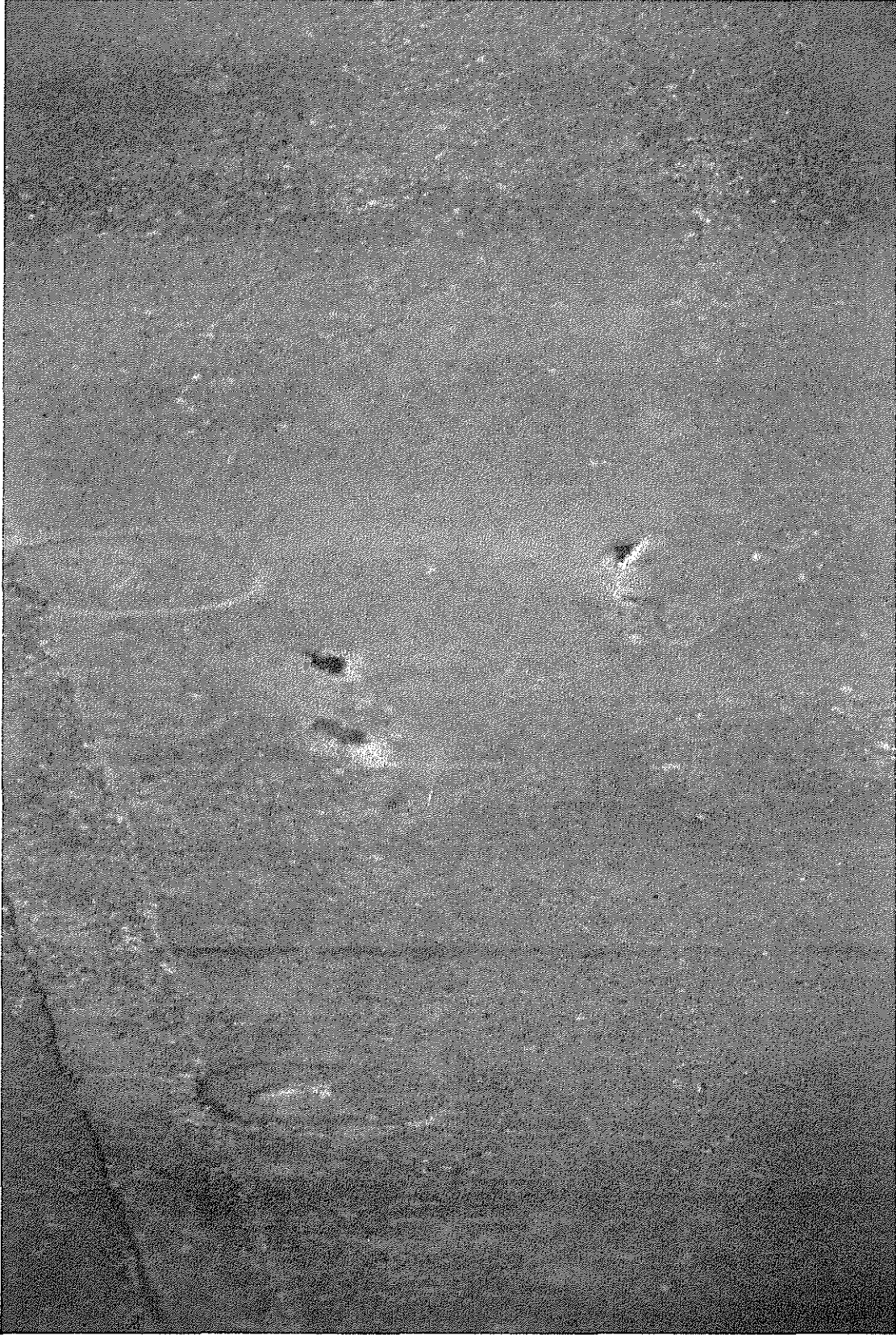
**CONCRETE INSPECTION ZONE IWL-148-001**  
 (EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)

 -DENOTES COMMENT NUMBER ON INSPECTION FORM.



IWL-148-001

00053146.jpg



IWL-148-001

00053147.jpg



00053148.jpg

IWL-148-001





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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-31  
 ZONE NUMBER: IWL-148-002 DRAWING NO.: 320865  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2,3,4,5,6
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *Chris Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

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

Signature: *B. Ash* Date: 6/20/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



FORM VT-1C  
 CONTAINMENT INSERVICE INSPECTION  
 RECORD OF VT-1C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-31  
 ZONE NUMBER: IWL-148-002 DRAWING NO.: 320865  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2,3,4,5,6
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *Chris Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The surface texture (comment #1) resulted from original construction and does not reflect degradation of the containment. The exposed & corroded reinforcing steel (comments #2 - #6) require engineering evaluation.

Signature: *Chris Sward* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

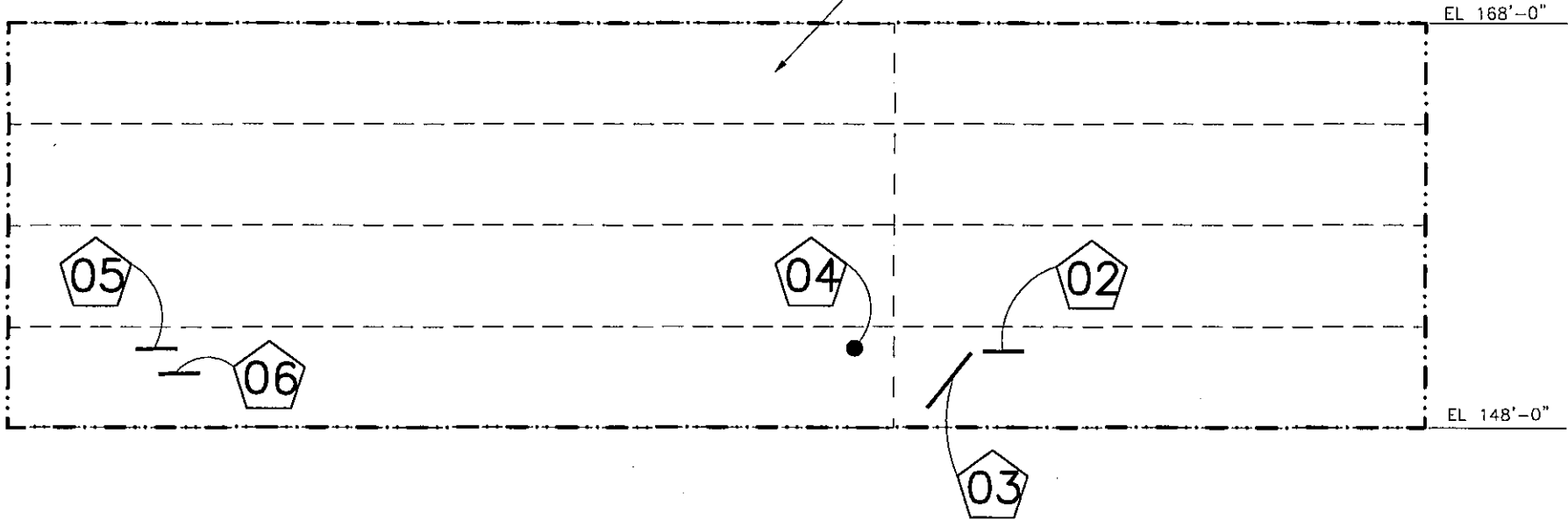


**FORM VT-3C (cont.)**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-3C EXAMINATION**

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-31

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	CAS
2	Exposed steel is corroded and appears to be rebar. See photo 00053138	CAS
3	A piece of steel, not reinforcing steel, is exposed at the concrete surface on a diagonal line approximately 3' long. See photo 00053140	CAS
4	A small spot of steel is exposed and corroded. It does not appear to be reinforcing steel. See photo 00053141	CAS
5	Cadweld exposed & corroded due to loss of concrete cover. See photo 00053149	CAS
6	Cadweld exposed & corroded due to loss of concrete cover. See photo 00053149	CAS

CONCRETE  
VCC-31



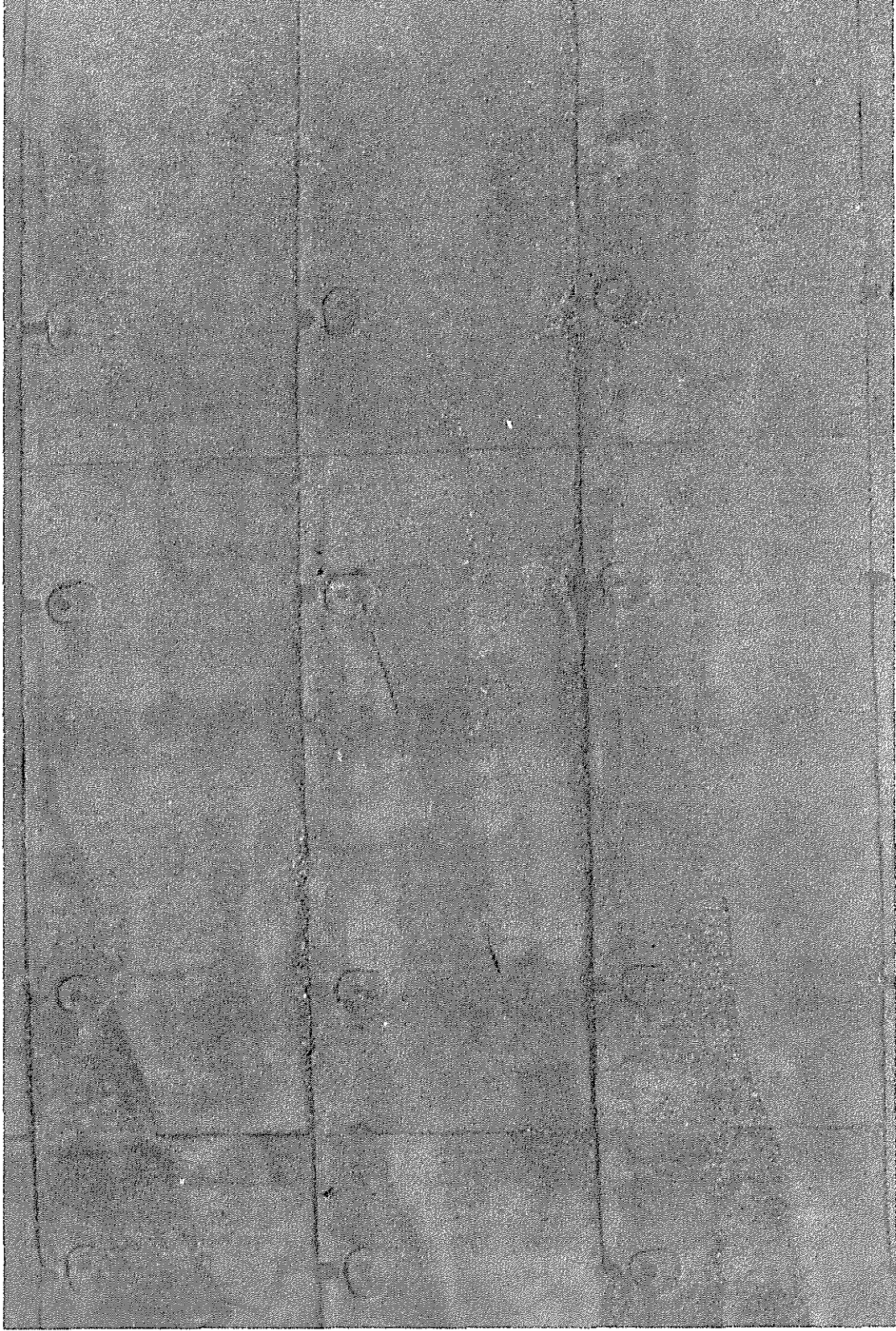
**CONCRETE INSPECTION ZONE IWL-148-002**  
(EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)

 -DENOTES COMMENT NUMBER ON INSPECTION FORM.



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IWL-148-002



00053140.jpg

IWL-148-002



IWL-148-002

00053141.jpg



00053149.jpg

IWL-148-002





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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-32  
 ZONE NUMBER: IWL-148-003 DRAWING NO.: 320866  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

*Work order NP-99-11274*

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining	X				2,3
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel			X		
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *Chris Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable : Yes  No  (VT-1C Examination Required)

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

Signature: *[Signature]* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**FORM VT-1C**  
 CONTAINMENT INSERVICE INSPECTION  
 RECORD OF VT-1C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-32  
 ZONE NUMBER: IWL-148-003 DRAWING NO.: 320866  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

*Work Order NP-99-11274*

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining	X				2,3
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel			X		
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *C. Sward* DATE: 5/31/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The surface texture (comment #1) resulted from original construction and does not reflect degradation of the Containment. Engineering evaluation is needed for the rust staining that is potentially from corroded rod welds.

Signature: *[Signature]* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

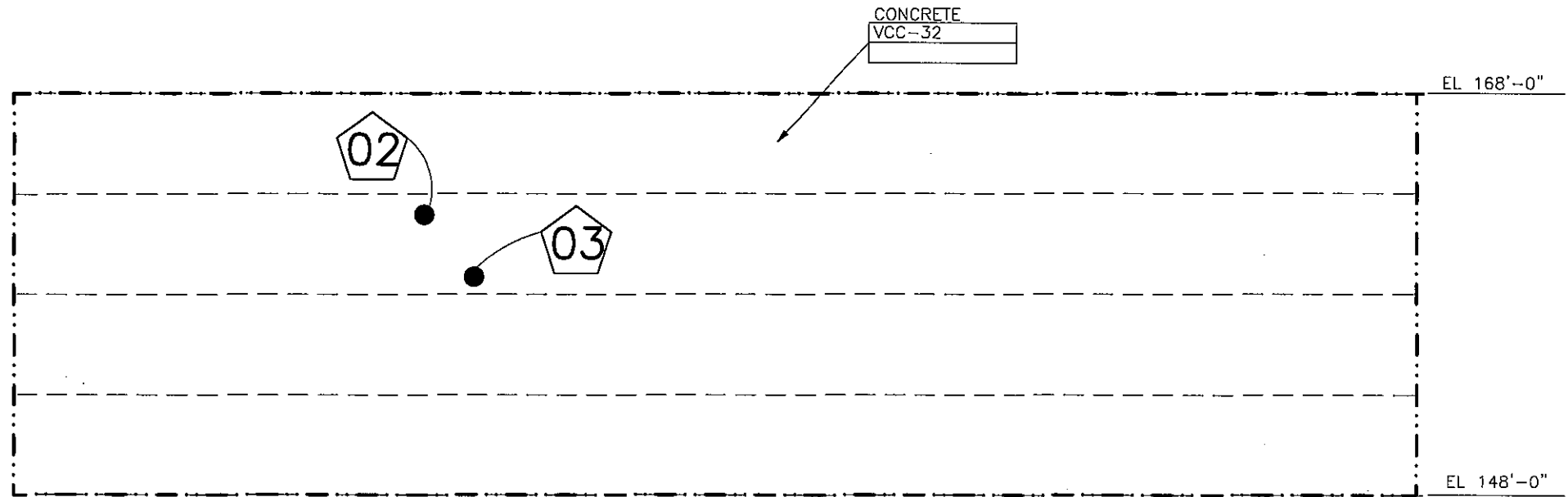
Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**FORM VT-3C (cont.)**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-3C EXAMINATION**

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-32

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	CAS
2	A small spot of steel is exposed and corroded. It is not immediately apparent whether it is reinforcing steel but it is similar in appearance to cadwelds exposed in other areas. See photo 00053133	CAS
3	A small spot of steel is exposed and corroded. It is not immediately apparent whether it is reinforcing steel but it is similar in appearance to cadwelds exposed in other areas. See photo 00053134	CAS



**CONCRETE INSPECTION ZONE IWL-148-003**  
 (EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)

 -DENOTES COMMENT NUMBER ON INSPECTION FORM.



IWL-148-003

00053133.jpg



IWL-148-003

00053134.jpg



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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-33  
 ZONE NUMBER: IWL-148-004 DRAWING NO.: 320867  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel			X		
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: R. Namperumal *R. Namperumal* DATE: 5/25/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable : Yes  No  (VT-1C Examination Required)

Comments: The surface texture resulted from original construction and does not reflect degradation of the Containment.

Signature: *[Signature]* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**FORM VT-3C (cont.)**  
**CONTAINMENT INSERVICE INSPECTION**  
**RECORD OF VT-3C EXAMINATION**

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-33

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	AL





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

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-34  
 ZONE NUMBER: IWL-148-005 DRAWING NO.: 320868  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *C. Sward* DATE: 6/1/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No  (VT-1C Examination Required)

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

Signature: *BA* Date: 6/30/00

AUTHORIZED NUCLEAR INSPECTOR REVIEW:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



FORM VT-1C  
 CONTAINMENT INSERVICE INSPECTION  
 RECORD OF VT-1C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-34  
 ZONE NUMBER: IWL-148-005 DRAWING NO.: 320868  
 EQUIPMENT USED: Celestron Giant 20x80 Binoculars (Ser. No. 990176)

Work Order No. NP-99-11274

Recording Conditions	RI	NRI	NI	NA	Comments
7.1.1.a Leaching or chemical attack			X		
7.1.1.b Abrasion or corrosion			X		
7.1.1.c Popouts or voids			X		
7.1.1.d Scaling			X		
7.1.1.e Spalling			X		
7.1.1.f Corrosion staining			X		
7.1.1.g Cracks			X		
7.1.1.h Settlement or deflection			X		
7.1.1.i Exposed reinforcing steel	X				2
7.1.1.j Coating deterioration				X	
Other		X			1

(Note: Sketches may be attached to clarify inspection areas and locations of indications.)

EXAMINED BY: C. Sward *Chris Sward* DATE: 6/1/00

RESPONSIBLE ENGINEER REVIEW:

Acceptable: Yes  No

Engineering Evaluation Required: Yes  No  Evaluation No.: CRS 2000 04138

Comments: The surface texture (comment #1) resulted from original construction and does not reflect degradation of the containment. Engineering evaluation is need for the exposed/corroded reinforcing steel.

Signature: *Chris Sward* Date: 6/1/00

AUTHORIZED NUCLEAR INSPECTOR (ANII) REVIEW:

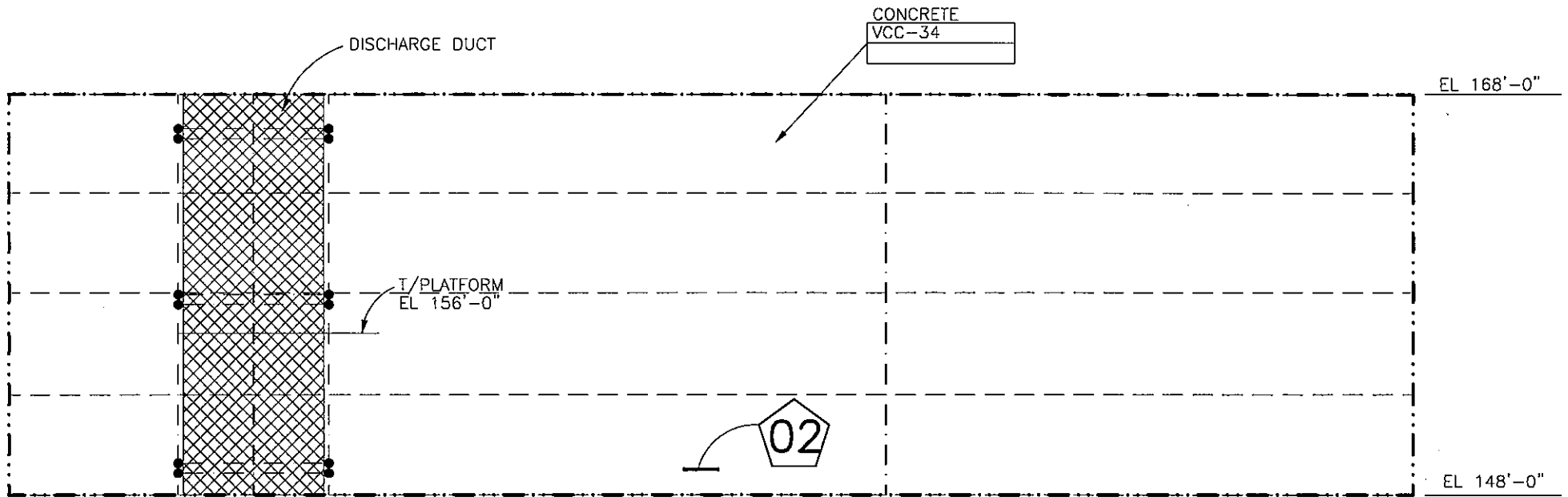
Signature: \_\_\_\_\_ Date: \_\_\_\_\_



FORM VT-3C (cont.)  
CONTAINMENT INSERVICE INSPECTION  
RECORD OF VT-3C EXAMINATION

STATION/UNIT: Indian Point 2 COMPONENT NO.: VCC-34

No.	Comment	Initials
1	Non-uniformity of surface color and texture observed at various locations in the zone. The condition does not indicate significant material deterioration of the concrete.	CAS
2	Rebar exposed and corroded. See photo 00060102	CAS



**CONCRETE INSPECTION ZONE IWL-148-005**  
 (EXTERIOR DEVELOPED VIEW, LOOKING FROM OUTSIDE)



-DENOTES COMMENT NUMBER ON INSPECTION FORM.



00060102.jpg

IWL-148-005