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ENN NUCLEAR MANAGEMENT MANUAL

ENGINEERING STANDARD

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IWL Visual Containment Inspection

IPEC Unit: 2 Interval Period: 1st/2nd Inspection Component No.: VCC - 17 Zone No: 006	_ Ins		n Repo Orawin		: IP2-O5-IWL-001
	\A/				
Description: El. 88 – El. 108	_ wor	K Orae	er No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	Acces	ssible areas only
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack					2
Abrasion or erosion degradation		\boxtimes			2
Pop outs and voids			\boxtimes		
Scaling			\boxtimes		
Spalls	10		\square		
Corrosion staining on concrete surfaces	10		\boxtimes		
Cracks	10	\boxtimes			1,2
Exposed reinforcing steel			\boxtimes		
Deteriorating of concrete coating, if applicable	10			\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces					
Detached embedment or loose bolts					
Other			\boxtimes		
(Note: Sketches or pictures may be attached to clarify inspection areas an Examined By: (April 1) Date: (April 2) Date: (April			Print/S	oignatui	re/Level
Comments:					
RE Signature Richard Drake Achar Visibe Print/Signature/Level	Date:	6,	19/0.	5	
Site Level III Review: Print/Signature/Level	Date:				
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				

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STATION/UNIT	Γ: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 17	
ZONE No:	006			

No.	Comment	Initials
1	8' long horizontal crack at El. 91.	Med
2	General pattern cracking, abrasion, and leaching between El. 88 and El. 95.	Med

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 18 Zone No: 001		[Orawin	g No.:	
Description: El. 108 – El. 128	_ Wor	k Orde	r No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	Acces	ssible areas only
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	\boxtimes				2,3
Abrasion or erosion degradation			\boxtimes		
Pop outs and voids					
Scaling			\boxtimes		
Spalls		\boxtimes			3
Corrosion staining on concrete surfaces			\boxtimes		
Cracks			\boxtimes		
Exposed reinforcing steel			\boxtimes		
Deteriorating of concrete coating, if applicable				\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other		\boxtimes			1
(Note: Sketches or pictures may be attached to clarify Inspection areas and Examined By: 1/2/05 Ex (Print Signature/Level Responsible Engineer Review:	amine	ed By:	Print/S	Signatu	re/Level
Acceptable: Yes No (Detailed VT-1 Examina	tion R	equired	d Attac	hment	7.3)
Comments:					
RE Signature Richard Dia Le Parad Charles Print/Signature/Level	Date:		6/9	los-	
Site Level III Review: Print/Signature/Level	<u>Date:</u>				
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				

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STATION/UNIT	: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 18
ZONE No:	001		

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.	net
2	Two 18" long leaching areas from the construction joints down to the form tie holes mortar patches. These areas have remained unchanged since previous inspection.	mof
3	General spalling and leaching between El. 123 and El. 128.	nof

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC -19 Zone No: 002		(Drawin	g No.:	
Description: El. 108 – El. 128	Wor	k Orde	r No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars Limitations: Accessible areas only					
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	\boxtimes				3,6
Abrasion or erosion degradation		\boxtimes			3
Pop outs and voids		\boxtimes			3
Scaling			\boxtimes		
Spalls		\boxtimes			7
Corrosion staining on concrete surfaces		\boxtimes			1,2,3,4,7
Cracks		\boxtimes			4,5
Exposed reinforcing steel	\boxtimes				1
Deteriorating of concrete coating, if applicable				\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other			\boxtimes		
(Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Examined By:					
Acceptable: Yes No (Detailed VT-1 Examinal Comments:	tion R	equired	d Attacl	nment	7.3)
21 d Note Plant Hall	/ Date:		6/	9/05	
Site Level III Review: Print/Signature/Level	Date:				
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				

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STATION/UNIT	: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 19
ZONE No:	002		

Comment	Initials
Exposed cadweld (approx. 9" long) with corrosion and staining apparently due to inadequate cover. Since previous inspection, the exposed cadweld has remained unchanged, but the concrete directly above is ready to fall. See photo U2-0251020	ingl
A small spot of corrosion appears on the concrete surface. It is not apparent whether this is reinforcing steel, a cadweld or miscellaneous steel. Unchanged since previous inspection.	nof
A small spot of corrosion appears on the concrete surface. It is not apparent whether this is reinforcing steel, a cadweld or miscellaneous steel. Since previous inspection, additional degradation has occurred. This area now has some abrasion, leaching, honeycomb, and 8 popouts (2 roughly 1" dia. and 6 smaller).	nof
Minor rust and joint cracking appears along El. 117.	ng
The concrete directly above (comment 4) has pattern cracking and bugholes.	ref
Leaching is evident approximately 18" long extending downward from the construction joint. This remains unchanged from previous inspection.	ngf
The concrete has spalled along the joint at El. 122 and rusting is visible.	Med
	Exposed cadweld (approx. 9" long) with corrosion and staining apparently due to inadequate cover. Since previous inspection, the exposed cadweld has remained unchanged, but the concrete directly above is ready to fall. See photo U2-0251020 A small spot of corrosion appears on the concrete surface. It is not apparent whether this is reinforcing steel, a cadweld or miscellaneous steel. Unchanged since previous inspection. A small spot of corrosion appears on the concrete surface. It is not apparent whether this is reinforcing steel, a cadweld or miscellaneous steel. Since previous inspection, additional degradation has occurred. This area now has some abrasion, leaching, honeycomb, and 8 popouts (2 roughly 1" dia. and 6 smaller). Minor rust and joint cracking appears along El. 117. The concrete directly above (comment 4) has pattern cracking and bugholes. Leaching is evident approximately 18" long extending downward from the construction joint. This remains unchanged from previous inspection.



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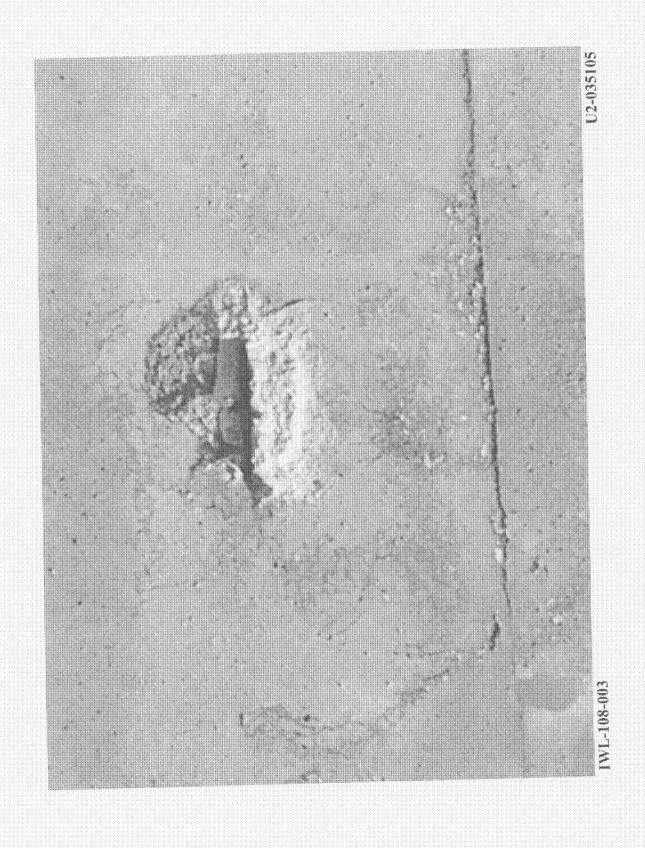
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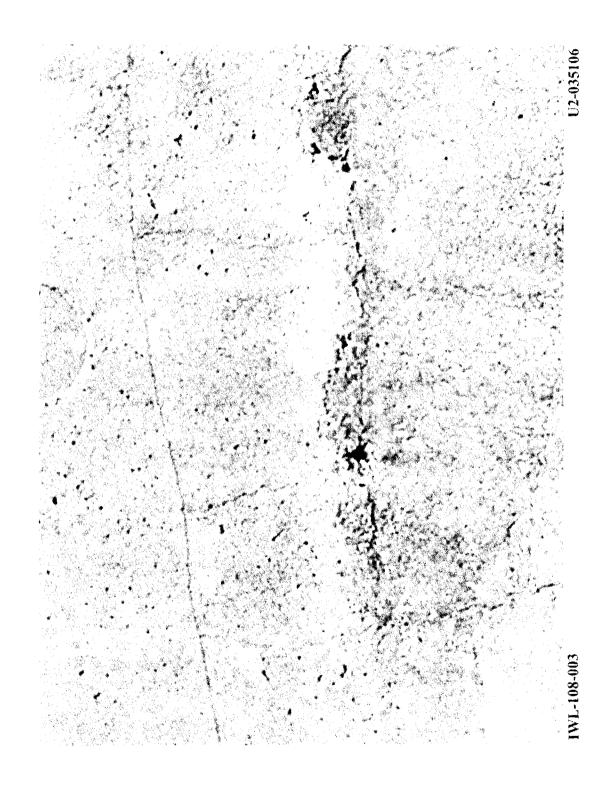
IPEC Unit: 2 Interval Period: 1st/2nd Inspection	Ins	pectio	n Repo	ort No.	:_ IP2-O5-IWL-001	
Component No.: VCC - 20 Zone No: 003		ا	Drawin	g No.:		
Description: El. 108 – El. 128	Wor	k Orde	r No:	IP2-0	3-29683	
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	<u>Acces</u>	ssible areas only	
Recording Condition	RI	NRI	NI	N/A	Comments	
Leaching or chemical attack			\boxtimes			
Abrasion or erosion degradation			\boxtimes			
Pop outs and voids	\boxtimes				4,8	
Scaling			\boxtimes			
Spalls	Ø				1,2,3,6,7,8	
Corrosion staining on concrete surfaces	Ø				4,5,6,7	
Cracks		\boxtimes			5	
Exposed reinforcing steel					6,7,8	
Deteriorating of concrete coating, if applicable				\boxtimes		
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes			
Detached embedment or loose bolts			\boxtimes			
Other			\boxtimes			
(Note: Sketches or pictures may be attached to clarify inspection areas and locations.) Examined By:						
Acceptable: Yes No (Detailed VT-1 Examinat	tion R	equired	l Attach	nment î	7.3)	
Comments:						
RE Signature Richard Drake Folia Millials Print/Signature/Level	Date:		0/9	105		
Site Level III Review: Print/Signature/Level	<u>Date:</u>		· · · · · · · · · · · · · · · · · · ·			
ANII Review: Not Applicable Print/Signature	Date:				The state of the s	

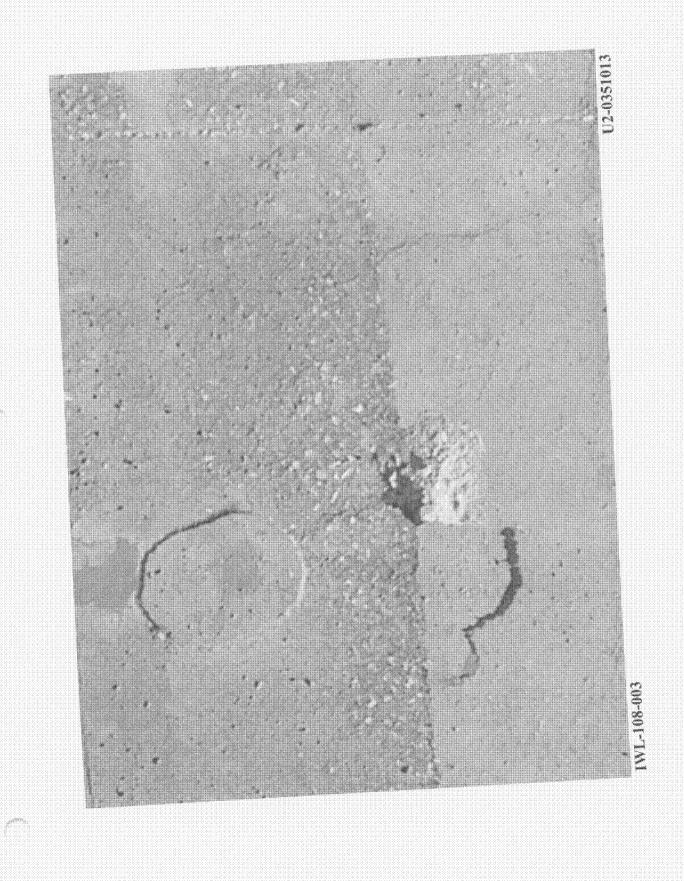
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STATION/UNIT:	IPEC / Indian Point No. 2	COMPONENT NO. :	VCC - 20
ZONE No:	003		

No.	Comment	Initials
1	6" diameter of concrete about to spall. Cadweld exposure 6" long with concrete spall. These areas have remained unchanged since previous inspection.	Med
2	6" concrete spall with additional concrete popouts and a slightly larger hole since previous inspection.	Med
3	6" concrete about to spall. This area has remained unchanged since previous inspection.	ng
4	Corrosion staining from 1 1/2" void hole. This hole has remained unchanged since previous inspection.	Nef
5	4 bug holes along a minor horizontal crack about 20 mils wide with minor staining. These holes have remained unchanged since previous inspection. See photo U2-035106	Med
6	3" concrete hole (spall) with an additional 6 inches of concrete about to spall and expose reinforcing steel with minor staining. This area has remained unchanged since previous inspection. See photo U2-0351013	nof
7	8" concrete area spalled, exposing cadweld with rust and staining since previous inspection. See photo U2-035105	nof
8	Band of concrete surface containing 9 popouts/spalls (ranging from 2"-8" dia.) centered on the zone between El. 108 and El. 148. Also, numerous bugholes (some with visible rust) and general pattern cracking appear within this band.	nof







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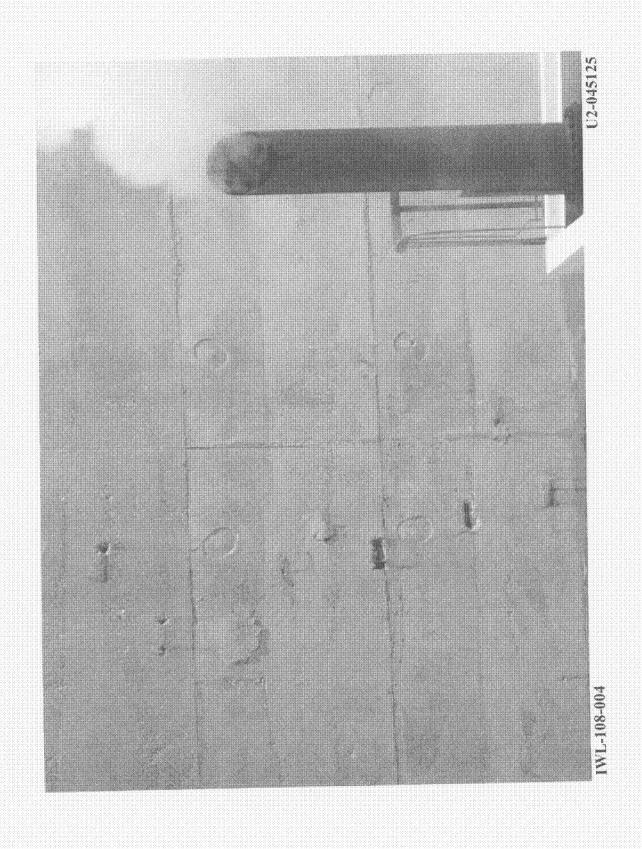
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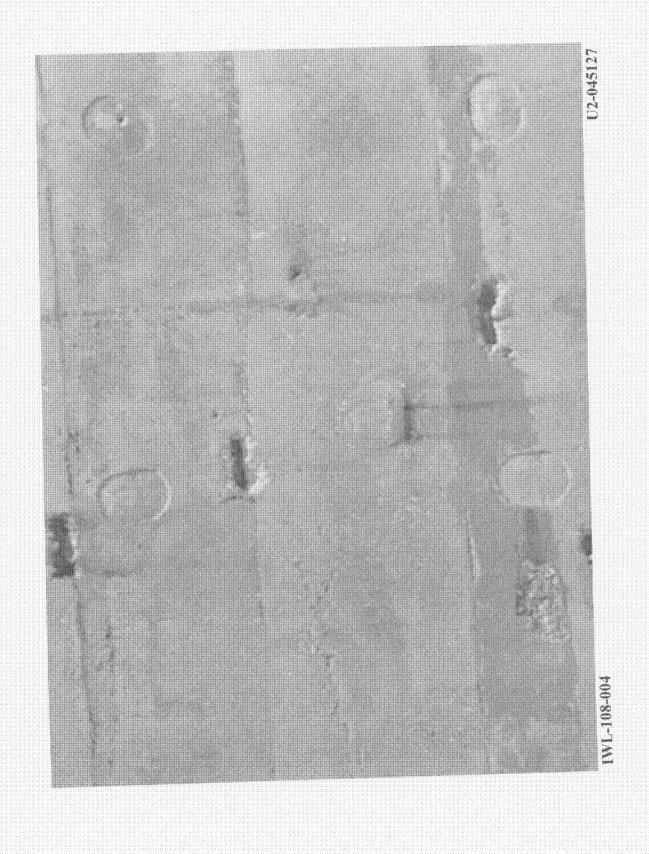
IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 21 Zone No: 004	Drawing No.:				
Description: El. 108 – El. 128	_ Work Order No:			IP2- 03- 29683	
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	Acces	ssible areas only
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack			\boxtimes		
Abrasion or erosion degradation			\boxtimes		
Pop outs and voids	Ø				8
Scaling			\boxtimes		
Spalls	Ø				1,2,3,4,5,
Corrosion staining on concrete surfaces	\boxtimes				1,2,3,4,5,6,7,8
Cracks			×		
Exposed reinforcing steel	Ø				1,2,4,6,8
Deteriorating of concrete coating, if applicable				\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other		\boxtimes			7
Other (Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Examined By: Print/Signature/Level Responsible Engineer Review:					
Acceptable : Yes ☒ No ☐ (Detailed VT-1 Examination Required Attachment 7.3)					
RE Signature Rehard Dake Kala () Low Date: 6/9/05					
Print/Signature/Level Site Level III Review: Print/Signature/Level	<u>Date:</u>				
ANII Review: Not Applicable Print/Signature	Date:		· · · - · ·		

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STATION/UNIT	T: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 21
ZONE No:	004		

No.	Comment	Initials
1	1 ½" rebar exposed with rusting and staining due to spall. Since previous inspection, some additional minor spalling has occurred at El. 109. See photo U2-045125	No
2	Concrete spall, 8" concrete about to popout. Since previous inspection, additional rebar has been exposed, along with rusting and staining. See photo U2-045125 and U2-045127	nof
3	Light spalling occurs with minor rust visible near El. 108.	ugf
4	10"x4" concrete spall exposing rebar over 8" length with some rusting and staining. This area has remained unchanged since previous inspection. See photo U2-045125	nof
5	A 2" concrete spall has occurred and two 6" concrete areas are about to spall. These areas have rusting and staining, but remained unchanged since previous inspection. See photo U2-045125	nef
6	Rebar (rusty) exposed at 2 locations spaced 9" and a 2" hole exposing rebar appear. These areas have remained unchanged since previous inspection. See photo U2-045125	nof
7	General bugholes appear over area (some with rust).	Not
8	2" hole, exposing rebar with rusting and staining. This area has remained unchanged since previous inspection.	Med





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IPEC Unit: 2 Interval Period: 1st/2nd Inspection	Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 22 Zone No: 005	Drawing No.:					
Description: El. 108 – El. 128	_ Wor	k Orde	r No:	IP2-0	3-29683	
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	Acces	ssible areas only	
Recording Condition	RI	NRI	NI	N/A	Comments	
Leaching or chemical attack			\boxtimes			
Abrasion or erosion degradation			\boxtimes			
Pop outs and voids			\boxtimes			
Scaling			\boxtimes			
Spalls			\boxtimes			
Corrosion staining on concrete surfaces			\boxtimes			
Cracks			\boxtimes			
Exposed reinforcing steel			\boxtimes			
Deteriorating of concrete coating, if applicable				\boxtimes		
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes			
Detached embedment or loose bolts			\boxtimes			
Other		\boxtimes			1	
(Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Examined By: DPAG04 NOTA 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 Docke Holland Date: 4/9/05						
	<u>Date:</u> _					
Print/Signature/Level ANII Review: Not Applicable Print/Signature	Date:					

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

STATION/UNIT: IPEC / Indian Point No. 2 COMPONENT NO. : VCC – 22

ZONE	No:	
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.	nof
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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001						
 	Drawing No.:					
Description: El. 108 – El. 128	Work Order No: <u>IP2-03-29683</u>			3-29683		
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	tions:	Acces	sible areas only	
Recording Condition	RI	NRI	NI	N/A	Comments	
Leaching or chemical attack			\boxtimes			
Abrasion or erosion degradation			\boxtimes			
Pop outs and voids			\boxtimes			
Scaling			\boxtimes			
Spalls			\boxtimes			
Corrosion staining on concrete surfaces		\boxtimes			1	
Cracks			\boxtimes			
Exposed reinforcing steel			\boxtimes			
Deteriorating of concrete coating, if applicable				\boxtimes		
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes			
Detached embedment or loose bolts			\boxtimes			
Other		\boxtimes			1	
(Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Examined By:						
Acceptable: Yes No (Detailed VT-1 Examina	ition R	equired	l Attacl	hment 7	7.3)	
RE Signature Richard Date Golden Aller Print/Signature/Level	Date:	4	79/	65		
Site Level III Review: Print/Signature/Level	<u>Date:</u>					
ANII Review: Not Applicable Print/Signature	<u>Date:</u>					