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Date: 5/10/2005 Page: X of Y

STATION/UNIT:	: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC – 34
ZONE No:	005		

No.	Comment	Initials
1	Rebar exposed and corroded. This area has remained unchanged since previous inspection.	Med
2	Area of concrete just to the left of the duct at El. 156 has pitting/abrasion, pattern cracking, and bugholes.	upf



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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 - 35 Zone No: 006		Drawing No.:				
Description: El. 148 – El. 168	Wor	k Orde	er 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				4	
Abrasion or erosion degradation			\boxtimes			
Pop outs and voids		\boxtimes			1	
Scaling			\boxtimes			
Spalls	\boxtimes				2,3,4	
Corrosion staining on concrete surfaces					2,3,4	
Cracks			\boxtimes			
Exposed reinforcing steel					2,3,4	
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 Examined By:	Examine	ed By:	DRA Print/S	Go G Signatur	TO NUTA Date: 6/2/ NUTA Date: 6/2/ re/Level	
RE Signature Richard Drake Kalan Buch	Date:	6	19/	65		
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 - 35
ZONE No: 0	06		

No.	Comment	Initials
1	Form tie hole unfilled at El. 154.	MAS
2	Cadweld exposure with rust and staining from 9" long concrete spall. This area has remained unchanged since previous inspection.	upf
3	Rebar exposure with staining at 3 spots, 1" to 3" long due to ½" cover concrete spall. This area has remained unchanged since previous inspection.	ugf
4	White deposit from concrete cover patch over exposed rebar at construction joint 6" long. Since previous inspection, rusting and staining has appeared with additional spalling.	Mef

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					IP2-O5-IWL-001
Component No.: VCC - 36 Zone No: 001		[Orawir	ng No.:	
Description: El. 168 – El. 188	_ 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			\boxtimes		
Scaling			\boxtimes		
Spalls			\boxtimes		
Corrosion staining on concrete surfaces			\boxtimes		
Cracks			\boxtimes		
Exposed reinforcing steel			\boxtimes		
Deteriorating of concrete coating, if applicable					
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 a **Examined By: **If the Theorem The	xamin	ed By:			
RE Signature Kidly Dale Heller Dale 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	: IPEC / Indian Point No. 2	COMPONENT NO. :	VCC ~ 36
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.	Med
2	Minor leaching from dome spring line construction joint. This area has remained unchanged since previous inspection.	Mel
3	2' long leaching from dome spring line construction joint. This area has remained unchanged since previous inspection.	Mof
-		

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection	Unit: 2 Interval Period: 1 st /2 nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 37 Zone No: 002	Component No.: VCC - 37 Zone No: 002 Drawing No.:					
Description: El. 168 – El. 188	_ 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				6,9	
Abrasion or erosion degradation					7,8	
Pop outs and voids	\boxtimes				4,5	
Scaling			\boxtimes			
Spalls	\boxtimes				3,7	
Corrosion staining on concrete surfaces	\boxtimes				1,2,5	
Cracks		\boxtimes			9	
Exposed reinforcing steel	\boxtimes				5	
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:						
Comments:	Date:	6,	19/0	25		
Site Level III Review: Print/Signature/Level	<u>Date:</u>					
ANII Review: Not Applicable Print/Signature	<u>Date:</u>		. <u> </u>			

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STATION/UNIT:	: IPEC / Indian Point No. 2	COMPONENT NO. :	VCC - 37
ZONE No:	002		

No.	Comment	Initials
1	A small spot of steel is exposed and corroded with staining. It is not known whether this is reinforcing steel. This area has remained unchanged since previous inspection.	ug
2	A small spot of steel is exposed and corroded with staining. It is not known whether this is reinforcing steel. This area has remained unchanged since previous inspection.	Kuf
3	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. This area has remained unchanged since previous inspection.	Med
4	Patch of shallow popouts just below El. 188.	Wef
5	A popout exposing a cadweld with rust and staining (approx. 8" long) is visible. See photo U2-025107	ligh
6	Leaching has occurred 6" long.	Nef
7	A joint spall and some pitting/abrasion is visible at El. 173.	Mig
8	Area of light abrasion approximately 4' long was spotted between El. 168 and El. 178	mof
9	General pattern cracking, bugholes, and leaching between El. 168 and El. 178.	Med
		U



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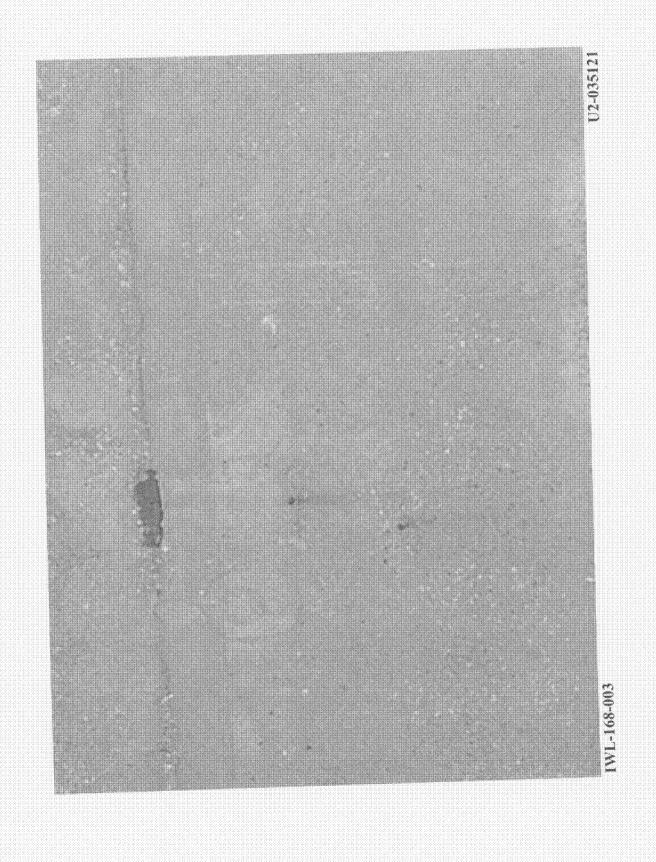
RECORD OF VI-3 / GENERAL VI	JUAL	EVAIAI	NAIL	714	
IPEC Unit: 2 Interval Period: 1st/2nd Inspection	Ins	pectio	n Repo	ort No.:	:IP2-O5-IWL-001
Component No.: VCC - 38 Zone No: 003		[Orawin	g No.:	
Description: El. 168 – El. 188	_ Wor	k Orde	r No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars Limitations: Accessible areas only					
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack					1
Abrasion or erosion degradation			\boxtimes		
Pop outs and voids					6
Scaling			\boxtimes		
Spalls	\boxtimes				3,4,5,7,8
Corrosion staining on concrete surfaces					5,6,7
Cracks		\boxtimes			1,4,8
Exposed reinforcing steel	\boxtimes				5,6,7
Deteriorating of concrete coating, if applicable				\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other					2
(Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Note: Sketches or pictures may be attached to clarify Inspection areas and locations. Note: Sketches or pictures may be attached to clarify Inspection areas and locations. Note: Sketches or pictures may be attached to clarify Inspection areas areas and locations. Note: Sketches or pictures may be attached to clarify Inspection areas a					
Acceptable : Yes ☑ No ☐ (Detailed VT-1 Examina	ition R	equired	d Attacl	nment '	7.3)
Comments:					
RE Signature Religion Doke Fales States Print/Signature/Level	Date:	6/	19/0	15	
Site Level III Review: Print/Signature/Level	<u>Date:</u>				
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				

IP2 - CISI - XXX Rev. 0 Date: 5/10/2005

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STATION/UNIT	: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 38
ZONE No:	003		

No.	Comment	Initials
1	General joint cracking, minor leaching, and pattern cracking between El. 168 and El. 173.	Mes
2	Bugholes with visible rust at El. 174 approximately 10 feet from left boundary.	nof
3	General joint cracking, bugholes, and spalls between El. 173 and El. 178.	not
4	General pattern cracking, minor joint cracking, and light spalling between El. 178 and El. 183.	West
5	9"x3" concrete spall exposing cadweld sleeve with staining due to insufficient concrete cover. This spall remains unchanged since previous inspection.	nef
6	2 voids exposing 1" corroded steel with staining remain unchanged since previous inspection. See photo U2-035121	ung
7	9"x3" concrete spall exposing cadweld sleeve with staining due to insufficient concrete cover has had additional spalling since previous inspection. See photo U2-035121	nof
8	Joint crack with spalling is visible just below El. 188.	uel



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<u>RI</u>	ECORD OF VT-3 / GENERAL \	/ISUAL	EXAM	INATIO	<u>NC</u>	
IPEC Unit: 2 Interval Period: 1st/2nd Inspection Component No.: VCC - 39 Zone No: 004			Inspection Report No.: IP2-O5-IWL-001			
			Drawing No.:			
Description: El. 168 – E	El, 188	Wor	k Orde	er No:	IP2-0	3-29683
Equipment Used: Celest	tron Giant 20x80 Binoculars		Limita	itions:	Acces	ssible areas only
Recordi	ng Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attac	k			\boxtimes		
Abrasion or erosion degrad	ation			\boxtimes		
Pop outs and voids				\boxtimes		
Scaling			\boxtimes			1
Spalls				\boxtimes		
Corrosion staining on conc	rete surfaces			\boxtimes		
Cracks			\boxtimes			1
Exposed reinforcing steel				\boxtimes		
Deteriorating of concrete co	pating, if applicable				\boxtimes	
Excessive corrosion of the surfaces	exposed embedded metal			\boxtimes		
Detached embedment or lo	ose bolts			\boxtimes		
Other			\boxtimes		Ū	1
Examined By: // Rrint/8igna		Examine	ed By:	D <u>RA</u> Drint/S	GOS I	NJTA Date: 6/2/05 re/Level
Acceptable : Yes 💢	No [(Detailed VT-1 Examin	nation Re	equired	l Attacl	nment 7	7.3)
Comments:						
RE Signature Richard L	Print/Signature/Level	 Date: _	6/	9/0	5	
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 - 39
ZONE No:004		

No.	Comment	Initials
1	General pattern cracking, bugholes, and an area of local scaling between El. 173 and El. 188.	ug
		<u> </u>
:		
		
<u>.</u>		

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection					:IP2-O5-IWL-001
Component No.: VCC - 40 Zone No: 005			Orawin	g No.:	
Description: El. 168 – El. 188	_ Wor	k Orde	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			\boxtimes		
Abrasion or erosion degradation		\boxtimes			2
Pop outs and voids			\boxtimes		
Scaling			\boxtimes		
Spalls			\boxtimes		
Corrosion staining on concrete surfaces			\boxtimes		
Cracks		\boxtimes			1,2
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.) MARK GETTLEMENT Date: 6/2/05 Examined By: DRAGOS NOTA Date: 6/2/05 Print/Signature/Level Responsible Engineer Review:					
Acceptable: Yes 🔀 No 🗌 (Detailed VT-1 Examina	tion R	equired	d Attac	hment '	7.3)
Comments:					
RE Signature Richard Drate Francisco De Print/Signature/Level	Date:	E	9/9/	05	
Site Level III Review: Print/Signature/Level	<u>Date:</u>		·····		
ANII Review: Not Applicable_	<u>Date:</u>			<u></u>	

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STATION/UNIT:	: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 40
ZONE No:	005		

No.	Comment	Initials
1	At El. 181 just to the left of the duct, bugholes, pattern cracking, and a crack (approx. 8" long and 1/8" wide) appears.	ugf
2	Large area of abrasion and general pattern cracking from El. 176 to the dome.	ugf
War.		

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection	_ Ins	pectio	n Rep	ort No.	: IP2-O5-IWL-001
Component No.: VCC - 41 Zone No: 006		1	Drawin	g No.:	
Description: El. 168 – El. 188	Wor	k Orde	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					1
Abrasion or erosion degradation	\boxtimes				2
Pop outs and voids			\boxtimes		
Scaling		\boxtimes			4
Spalls	\boxtimes				2,3
Corrosion staining on concrete surfaces	\boxtimes				2,3
Cracks			\boxtimes		
Exposed reinforcing steel	\boxtimes				2,3
Deteriorating of concrete coating, if applicable				\boxtimes	
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other			\square		
(Note: Sketches or pictures may be attached to clarify Inspection areas a supply of the state of	Examin	ed By:	Print/S	Signatui	<u>NU 74</u> Date: <u>b /z-/</u> re/Level
Acceptable : Yes ☒ No ☐ (Detailed VT-1 Examin Comments:	nation R	equired	d Attac	hment	7.3)
RE Signature Richard Dake Laker Wheelt Print/Signature/Level	Date:	6,	19/	05	
Site Level III Review: Print/Signature/Level	<u>Date:</u>		<u> </u>		
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				

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STATION/UNIT	: IPEC / Indian Point No. 2	COMPONENT NO. :	VCC - 41
ZONE No:	006		

No.	Comment	Initials
140,		Initials
1	12" long Efflorescence (white deposit) from 3" radius chipped concrete. This area has remained unchanged since previous inspection.	Nef
2	10" long cadweld sleeve exposed with staining due to spalling of (1/2") cover concrete. Since previous inspection, additional spalling exposing more rebar has occurred with some abrasion in the area.	nef
3	10" long cadweld sleeve exposed with staining due to spalling of (1/2") cover concrete. Since previous inspection, local pitting has occurred within the area.	uf
4	General large scaling between El. 171 and El. 181.	
_		

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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 - 42 Zone No: 001			Drawin	g No.:	
Description: Dome	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			3,4
Pop outs and voids		\boxtimes			2
Scaling			\boxtimes		
Spalls		\boxtimes			3,4
Corrosion staining on concrete surfaces					1
Cracks		\boxtimes			3,4
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		
(Note: Sketches or pictures may be attached to clarify Inspection areas are manifest of the state of the stat	xamin	ed By:	<u>DRA</u> Print/S	(605 Signatui	NUTA Date: 6/2/0. re/Level
Acceptable: Yes ⊠ No ☐ (Detailed VT-1 Examina	ation R	equired	d Attacl	nment	7.3)
Comments:					
RE Signature Richard Dake Solve Willed Print/Signature/Level	Date:	6	19/0	5	
Site Level III Review: Print/Signature/Level	Date:				
ANII Review: Not Applicable	<u>Date:</u>			_	

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STATION/UNI	T: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 42	
ZONE No:	001			

NI -	Comment	Jan 141 - 1 -
No.	Comment	Initials
1	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports the lightning rod. Rust is clearly from lightning rod. This area has remained unchanged since previous inspection.	Not
2	General areas of small popouts on surface of dome.	ung
3	3' crack with spalling and abrasion at El. 200.	und
4	4' crack with spalling and abrasion at El. 196.	not

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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 - 43 Zone No: 002		I	Drawin	g No.:	
Description: Dome	Wor	k Orde	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			\boxtimes		
Abrasion or erosion degradation		\boxtimes			2
Pop outs and voids		\boxtimes			1,3
Scaling					2
Spalls		\boxtimes			1,2
Corrosion staining on concrete surfaces					4
Cracks					1,2
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			2
(Note: Sketches or pictures may be attached to clarify Inspection areas a MANK, GUTTYMAN Date: 4/2/05 Examined By: 4/2/05 Exam	examino	ed By:	DRA Print/S	Signatui	Date: 6/2/0.
Acceptable : Yes No (Detailed VT-1 Examin	ation R	equired	d Attac	hment	7.3)
RE Signature Robust Jake Film July Print/Signature/Level	Date:	6	/9/0	95	
Site Level III Review: Print/Signature/Level	<u>Date:</u>				
ANII Review: Not Applicable Print/Signature	Date:				

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STATION/UNIT	Γ: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 43
ZONE No:	002		

No.	Comment	Initials
1	A 5' long crack with spalls (width: ¼" to 2") and some deep holes.	Hof
2	General light to medium scaling, numerous joint spalls, pattern cracking, and areas of abrasion were found throughout the dome.	Med
3	A small hole found in joint.	Mef
4	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports the lightning rod. The rust is obviously dripping down from the lightning rod base support plate. No cracking is evident in the area so rebar corrosion is not suspected.	ugf

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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 - 44 Zone No: 003			Drawin	g No.:	
Description: Dome	_ Wor	k Orde	er No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	itions:	<u>Acces</u>	ssible areas only
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack			\boxtimes		
Abrasion or erosion degradation					
Pop outs and voids	\boxtimes				1,5
Scaling		\boxtimes			7
Spalls	\boxtimes				1,7
Corrosion staining on concrete surfaces		\boxtimes			2,5,9
Cracks		\boxtimes			1,4,6,7
Exposed reinforcing steel	\boxtimes				3,5
Deteriorating of concrete coating, if applicable					
Excessive corrosion of the exposed embedded metal surfaces			\boxtimes		
Detached embedment or loose bolts			\boxtimes		
Other					2,8
(Note: Sketches or pictures may be attached to clarify Inspection areas an Examined By: April Signature/Level Responsible Engineer Review: Acceptable: Yes No (Detailed VT-1 Examina)	kamin	ed By:	Print/S	ngriatui	NUTA Date: 6 /2/0.
Comments:					
RE Signature Ridial Dale Print Signature Level	Date:	6	19/0	1	
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 - 44	
ZONE No:	003			

No.	Comment	Initials
1	Over 10' span on the upper right corner of dome, popouts, joint spalling, and cracking is visible.	Med
2	Two bugholes with visible rust and staining at approx. El. 210 and 15' from right boundary.	ugf
3	Two bugholes with exposed rebar vertically lined between El. 188 and El. 193.	nof
4	Large amounts of pattern cracking exist between El. 188 and El. 203.	Med
5	Exposed rebar with staining due to a 2" spall or popout at El. 199.	nef
6	A joint crack exists greater than a 1/4" wide and approx. 3' long.	luf
7	General pattern cracking, light scaling, localized spall areas (2"-4"), numerous bugholes, and joint crack exist on dome.	ligh
8	A visible honeycomb appears at El. 228.	nof
9	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports the lightning rod. The rust is obviously dripping down from the lightning rood base support plate. No cracking is evident in the area so rebar corrosion is not suspected.	ugl

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection					
Component No.: VCC - 45 Zone No: 004		{	Drawin	g No.:	
Description: Dome	_ Wor	k Orde	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			\boxtimes		
Abrasion or erosion degradation			\boxtimes		
Pop outs and voids		\boxtimes			3
Scaling			\boxtimes		
Spalls					1,3,4
Corrosion staining on concrete surfaces		\boxtimes			5
Cracks		\boxtimes			2
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			2
(Note: Sketches or pictures may be attached to clarify inspection areas an Examined By: Hark Garriguan Date: 6/2/05 ExPrint/Signature/Level Responsible Engineer Review:			Print/S	signatur	re/Level
Acceptable : Yes No (Detailed VT-1 Examina	ition R	equired	Attacl	nment	7.3)
Print/Signature/Level	Date:	6	9/4/	05	
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	T: IPEC / Indian Point No. 2	COMPONENT NO.:	VCC - 45
ZONE No:	004		

No.	Comment	Initials
1	3" long spall at El. 193, approximately 5' from right boundary.	nof
2	General bugholes and pattern cracking between El. 188 and El. 208.	not
3	Numerous joint spalls and popouts above El. 208.	MOS
4	General light spalling over dome area.	uef
5	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports the lightning rod. The rust is obviously dripping down from the lightning rod base support plate. No cracking is evident in the area so rebar corrosion is not suspected.	hof
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IPEC Unit: 2 Interval Period: 1st/2nd Inspection	_ ins	Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 46 Zone No: 005		Drawing No.:					
Description: Dome	Wor	k Orde	er No:	IP2-0	3-29683		
Equipment Used: Celestron Giant 20x80 Binoculars		Limita	itions:	<u>Acces</u>	sible areas only		
Recording Condition	RI	NRI	NI	N/A	Comments		
Leaching or chemical attack			\boxtimes				
Abrasion or erosion degradation					3		
Pop outs and voids					6,8		
Scaling					1		
Spalls		\boxtimes			1,2,3,4		
Corrosion staining on concrete surfaces		\boxtimes			5		
Cracks		\boxtimes			7		
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				
(Note: Sketches or pictures may be attached to clarify Inspection areas a Examined By: Print/Signature/Level Responsible Engineer Review: Acceptable: Yes No (Detailed VT-1 Examin	Examino	ed By:	<u> </u>	Signatur	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		
RE Signature Richard United Makan Mills Die Print/Signature/Level	Date:	E,	19/	05			
Site Level III Review: Print/Signature/Level ANII Review: Not Applicable	Date:			_			
ANII Review: Not Applicable Print/Signature	<u>Date.</u>				<u> </u>		

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STATION/UNIT	: IPEC / Indian Point No. 2	COMPONENT NO. :	VCC - 46
ZONE No:	005		

No.	Comment	Initials
1	General scaling, peeling, and spalling above the arresters.	Met
2	Incipient spall near right rod.	WA
3	Area of abrasion with a joint spall approximately 15' right of the duct at El. 191.	nef
4	General minor spalls on the concrete surface of the dome.	Med
5	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports the lightning rod. The rust is obviously dripping down from the lightning rod base support plate. No cracking is evident in the area so rebar corrosion is not suspected. Corrosion staining is also evident at surface attachments for the discharge duct due to rusting of the attachment plates. These rust stains have remained unchanged since previous inspection.	Kef
6	3" diameter void (shallow hole) under the duct edge. This area has remained unchanged since previous inspection.	May
7	4' long horizontal crack and about 20 to 30 mils in width, 15" above the dome spring line. This area has remained unchanged since previous inspection.	rig
8	Areas of small popouts between El. 188 and El. 196.	Med
		0

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Repo				ort No.	: IP2-O5-IWL-001
Component No.: VCC - 47 Zone No: 006		Drawing No.:			
Description: Dome		Work Order No: IP2-03-29683			
Equipment Used: Celestron Giant 20x80 Binoculars	Limitations: <u>Accessible areas only</u>				
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack	\boxtimes				2
Abrasion or erosion degradation					2
Pop outs and voids			\boxtimes		
Scaling			\boxtimes		
Spalls			\boxtimes		
Corrosion staining on concrete surfaces		\boxtimes			1
Cracks		\boxtimes			2
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		
(Note: Sketches or pictures may be attached to clarify Inspection areas a Examined By:			Print/S	Signatu	re/Level
Acceptable: Yes ☑ No ☐ (Detailed VT-1 Examin	ation R	equired	d Attacl	hment	7.3)
Comments:				 	
RE Signature Kicking Date Kalen V lakel Printi Signature/Level	Date:		49	7/05	
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 – 47	
ZONE No:	006			

No.	Comment	Initials
110.	Large rust stains are evident on the surface of the dome at and below the concrete pier which supports	111111111111111111111111111111111111111
1	the lightning rod. The rust is obviously dripping down from the lightning rod base support plate. No cracking is evident in the area so rebar corrosion is not suspected. This area has remained unchanged since previous inspection.	ugf
2	General pattern cracking, leaching, and numerous areas of abrasion on the surface of the dome.	West

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IPEC Unit: 2 Interval Period: 1st/2nd Inspection Inspection Report No.: IP2-O5-IWL-001					
Component No.: VCC - 48 Zone No: 007		Drawing No.:			
Description: Top of Dome		k Orde	r No:	IP2-0	3-29683
Equipment Used: Celestron Giant 20x80 Binoculars Limitations: Accessible areas only				ssible areas only	
Recording Condition	RI	NRI	NI	N/A	Comments
Leaching or chemical attack					4
Abrasion or erosion degradation			\boxtimes		
Pop outs and voids					3
Scaling			\boxtimes		
Spalls			\boxtimes		
Corrosion staining on concrete surfaces		\boxtimes			1
Cracks		\boxtimes			2,4
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			4,5
(Note: Sketches or pictures may be attached to clarify Inspection areas and locations.) Examined By: Gopal Branch Date: 6/2/05 Examined By: Gopal Branch Print/Signature/Level Responsible Engineer Review:					
Acceptable: Yes No (Detailed VT-1 Examination Required Attachment 7.3)					7.3)
RE Signature Richard Date: 6/9/05 Print/Signature/Level					
Print/Signature/Level	<u>Date:</u>				
ANII Review: Not Applicable Print/Signature	<u>Date:</u>				