2009 NRC Special Inspection - RB Concrete Separation

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Request Number: 10							
Individual Contacted:		Garry Miller	Date	e Contacted:	10/22/2009		
Requestor/Inspector:		Dan Naus	NO. 20 - 10 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Category:		Question	
Request:	When CTL is using IR and IE, can they determine relative concrete quality of locations tested as part of CTL NDE procedures?						
References:							
Response Assigned to: Paul Fagan Date Due to Inspector: 10/26/2009							
Response:							
In general, the Impulse Response (IR) test results is influenced by concrete quality and existence of defects at the test point. The aspects in concrete influencing IR results include presence of delamination, cracking, significant void or honeycomb and change in concrete properties. The most significant factor is the presence of delamination which effectively reduces the thickness of wall or slab responding to the impact. Considerable difference in quality of concrete is typically reflected in the test results. For example, a core removed from panel RBCN-0014-N (Core #13) where a higher mobility value was obtained by NDT, had less coarse aggregate in the concrete, which changed density and modulus in that localized area, no delamination was noted in these areas with subsequent boroscope examinations.							
Misc Notes:							
Response By:	Paul Fag	an				Andrew Western Name (S. 1972) And Market Provided and Andrew Service (S. 1972) And Market Provided Andrew Service (S. 1972) Andrew Service (S. 197	
Reviewed By:	Annual Inc. of the second		Date R	Response Provi	ded:	11/12/2009	
Status:	Closed		-	Date Clo	sed:	.,	

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