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**To:** <ajm@nrc.gov> T. Merdiola IPR  
**Date:** 9/10/02 10:22AM  
**Subject:** Sample Plan Phase 3

Tony-

As you requested this morning, attached is Condition Report (CR) 02-05705 on the clad cracks and related photos. I have also attached a copy of CR 02-05536 regarding a circumferential J-groove weld crack indication that was described in the status update of 9/3 that was transmitted to Jon Hopkins on 9/6.

I discussed the clad crack issue with Hongqing Xu of Framatome. He confirms that there are no indications that the crack is through wall. He also confirms that the cracks appear to be at a junction between two weld beads and are running parallel to the direction of the weld beads. All lab activities with this sample are on hold. Hongqing is working on updating the Sample Plan to discuss and address the discovery of the clad cracks.

I will be calling you later today to discuss setting up a conference call for sometime tomorrow morning to further discuss these issues.

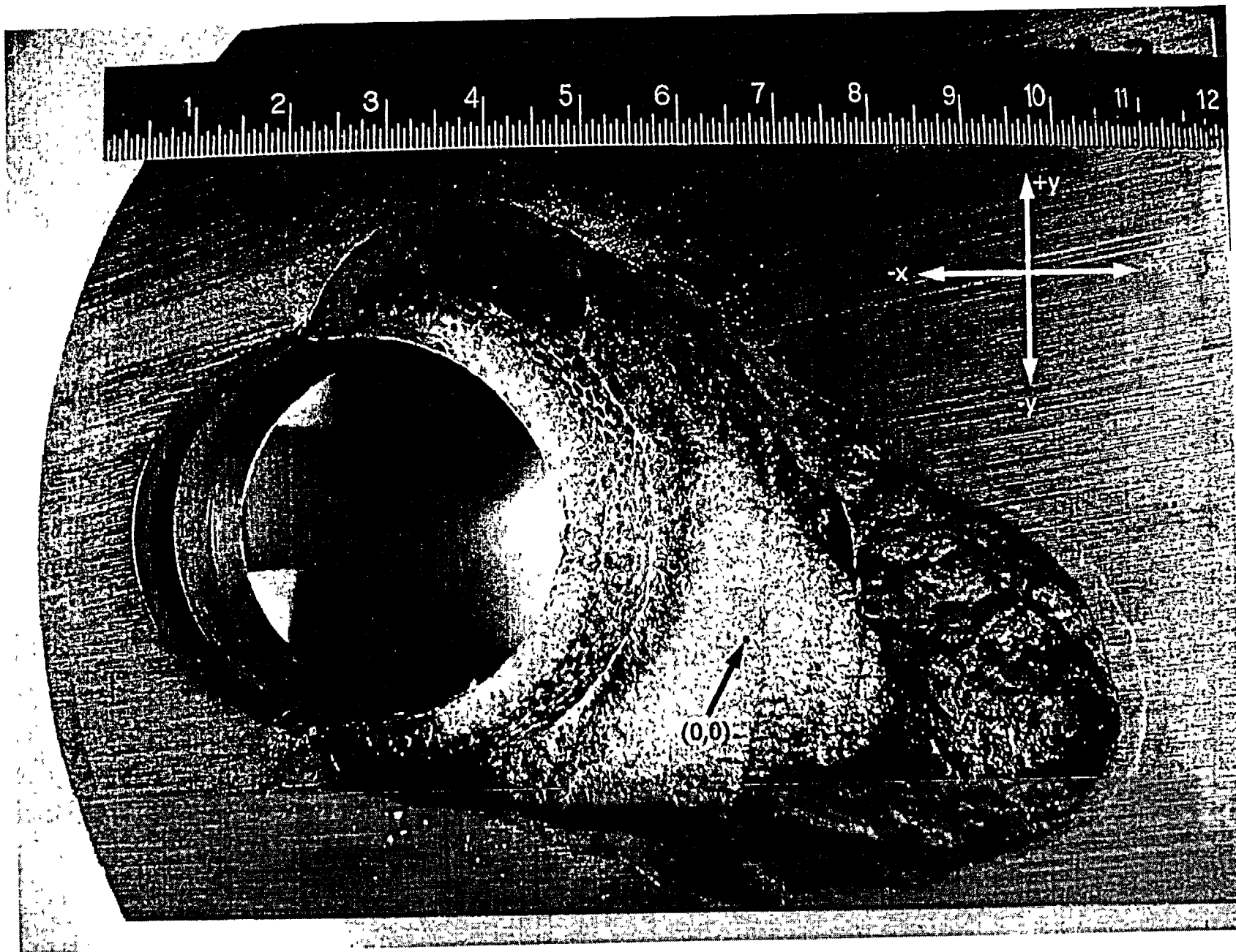
(See attached file. CR02-05705.PDF)(See attached file: piece A2 top view of cavity.jpg)(See attached file: pc A2 crack in clad.jpg)(See attached file. CR02-05536.PDF)

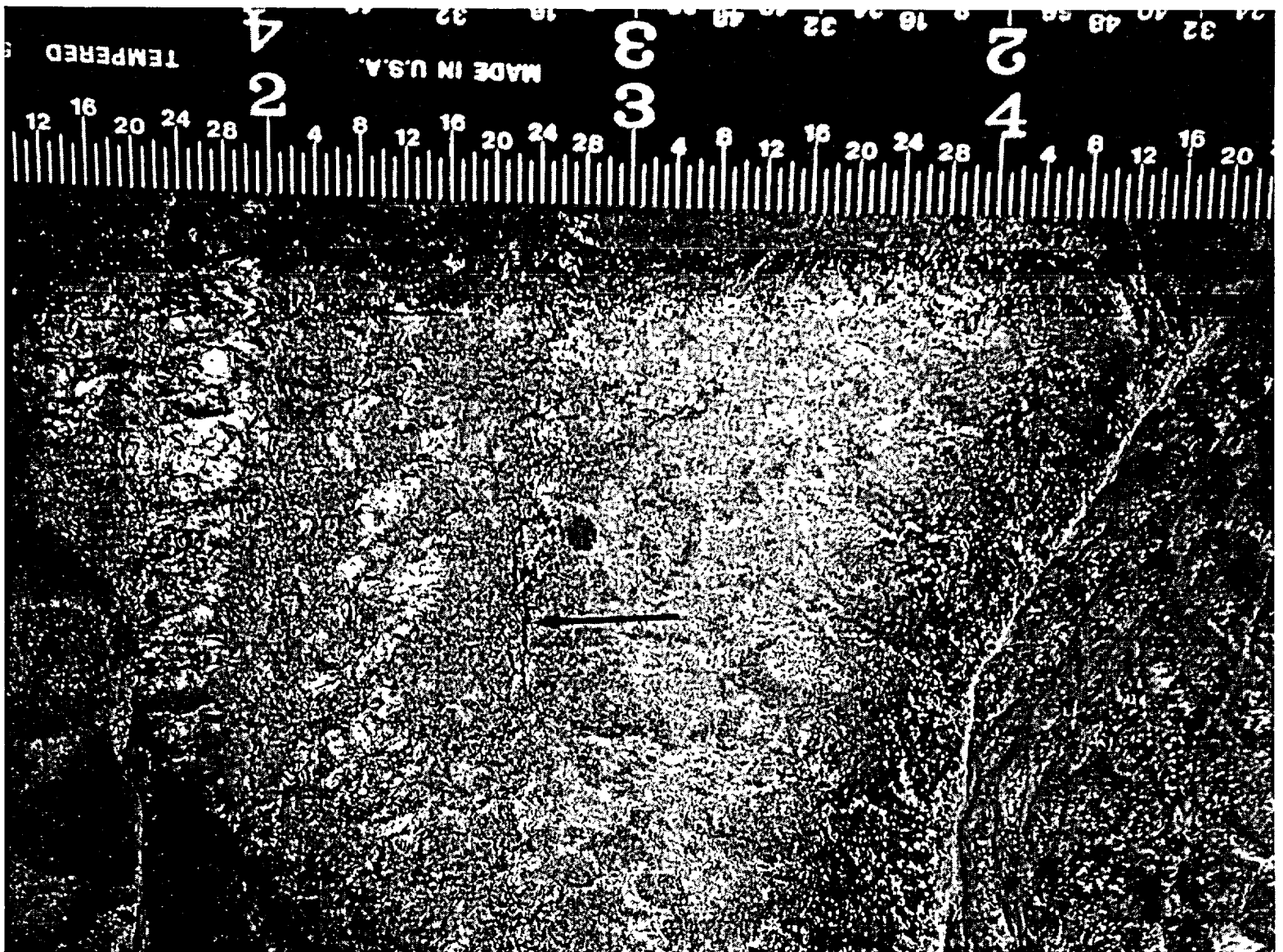
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B1136

CONDITION REPORT					CR Number		
TITLE: CLADDING CRACK FOUND IN ORIGINAL RVH CAVITY					02-05705		
O R I G I N A T I O N	DISCOVERY DATE	TIME	EVENT DATE	TIME	SYSTEM / ASSET#		
	9/6/2002	N/A	na	N/A	N/A N/A		
	EQUIPMENT DESCRIPTION						
	Original Davis-Besse Reactor Head Cavity						
	<p style="font-weight: bold; font-size: 10pt;">DESCRIPTION OF CONDITION and PROBABLE CAUSE (if known) Summarize any attachments. Identify what, when, where, why, how.</p> <p>The 17" diameter specimen that was removed from the original Davis-Besse Reactor Pressure vessel is currently undergoing examination in a laboratory. The laboratory informed Davis-Besse today that a crack approximately 3/8" long was found in the center of the exposed cladding area of the cavity. This new information will need to be evaluated for possible effects on the safety significance analysis.</p> <p>The laboratory also performed cladding thickness measurements. The results were as follows:</p> <p>Average - 0.256"                      Minimum - 0.202"                      Maximum - 0.314"</p> <p>These results will also need to be evaluated to determine their effect on the safety significance analysis.</p>						
SUPV COMMENTS / IMMEDIATE ACTIONS TAKEN (Discuss CORRECTIVE ACTIONS completed, basis for closure.)							
NA							
QUALITY ORGANIZATION USE ONLY		IDENTIFIED BY (Check one)		ATTACHMENTS			
Quality Org. Initiated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Individual/Work Group		<input type="checkbox"/> Self-Revealed			
Quality Org Follow-up <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Supervision/Management		<input type="checkbox"/> Internal Oversight			
				<input type="checkbox"/> External Oversight			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
ORIGINATOR	ORGANIZATION	DATE	SUPERVISOR	DATE	PHONE EXT.		
MCLAUGHLIN, M	CH	9/9/2002	MCLAUGHLIN, M	9/9/2002	8295		
P L A N T  O P E R A T I O N S	SRO REVIEW	EQUIPMENT OPERABLE	EVALUATION REQUIRED	INVESTIGATE REQUIRED	ORGANIZATION NOTIFIED	MODE CHANGE RESTRAINT	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	MODE		ASSOCIATED TECH SPEC NUMBER(S)		ASSOCIATED LCO ACTION STATEMENT(S)		
	N/A		N/A		#1 N/A		
					#2		
				#3			
DECLARED INOPERABLE (Date / Time)		REPORTABLE?		One Hour N/A		APPLICABLE UNIT(S)	
N/A		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Four Hour N/A		<input checked="" type="checkbox"/> U1 <input type="checkbox"/> U2 <input type="checkbox"/> Both	
		<input type="checkbox"/> Eval Required		Other N/A			
COMMENTS							
N/A							
Current Mode - Unit 1		Power Level - Unit 1		Current Mode - Unit 2		Power Level - Unit 2	
N/A		N/A		N/A		N/A	
SRO - UNIT 1			SRO - UNIT 2			DATE	
Approved By Supv			N/A			9/9/2002	





CONDITION REPORT						CR Number
TITLE: CRACK INDICATION IN J-GROOVE WELD OF OLD CRDM NOZZLE 3						02-05536
O R I G I N A T I O N	DISCOVERY DATE	TIME	EVENT DATE	TIME	SYSTEM / ASSET#	
	9/5/2002	13.00	9/5/02	N/A	062-01 N/A	
	EQUIPMENT DESCRIPTION Retired Control Rod Drive Nozzle #3					
	DESCRIPTION OF CONDITION and PROBABLE CAUSE (if known) Summarize any attachments. Identify what, when, where, why, how.					
<p>A lab report for the old Reactor head nozzle 3 weld sample was received from Framatome with a circumferential J-groove weld crack indication. The indication is located approximately 3/4" radially from the penetration bore over approximately a 45 degree span on the cladding side (RCS side), slightly offset from the centerline of the nozzle 3 corrosion cavity. It was revealed with fluorescent penetrant testing. (Many small cracks appear to be linked to comprise the total 45 degree arc.) Conversation with Framatome indicated that the indication probably does not extend through the weld, and thus would NOT have contributed to RCS pressure boundary leakage already reported for this nozzle under CR 02-00891. This indication is consistent with crack formation due to PWSCC.</p>						
SUPV COMMENTS / IMMEDIATE ACTIONS TAKEN (Discuss CORRECTIVE ACTIONS completed, basis for closure.)						
<p>Although this nozzle is no longer associated with installed plant equipment and therefore has no operability impact, it has significance for failure statistics, potential use as a qualification sample for NDE, and/or research. It may also be necessary to revise documentation pertaining to the number of crack indications found during 13RFO. It is believed that this weld area was dye penetrant tested under Work Order 02-001917-000, step 13, while on site This CR should determine whether this test was actually performed and if so, why it did not detect the crack indication.</p>						
QUALITY ORGANIZATION USE ONLY		IDENTIFIED BY (Check one)		ATTACHMENTS		
Quality Org Initiated <input type="checkbox"/> Yes <input type="checkbox"/> No Quality Org Follow-up <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Self-Revealed <input checked="" type="checkbox"/> Individual/Work Group <input type="checkbox"/> Supervision/Management		<input type="checkbox"/> Internal Oversight <input type="checkbox"/> External Oversight		
ORIGINATOR		ORGANIZATION	DATE	SUPERVISOR	DATE	PHONE EXT.
LANG, T		LCM	9/5/2002	LANG, T	9/5/2002	8116
P L A N T  O P E R A T I O N S	SRO REVIEW	EQUIPMENT OPERABLE	EVALUATION REQUIRED	IMMEDIATE INVESTIGATION REQUIRED	ORGANIZATION NOTIFIED	MODE RESTRAINT
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	MODE	ASSOCIATED TECH SPEC NUMBER(S)		ASSOCIATED LCO ACTION STATEMENT(S)		
				#1		
DECLARED INOPERABLE (Date / Time)		REPORTABLE?	One Hour N/A		APPLICABLE UNIT(S)	
N/A		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Eval Required	Four Hour N/A		<input checked="" type="checkbox"/> U1 <input type="checkbox"/> U2 <input type="checkbox"/> Both	
COMMENTS						
<p>This is no longer plant equipment. CR erroneously marked as Subsystem 062-01 which automatically slated it for SRO Review with no Option to change. No SRO Review is required.</p>						
Current Mode - Unit 1		Power Level - Unit 1	Current Mode - Unit 2		Power Level - Unit 2	
DEF		0				
SRO - UNIT 1			SRO - UNIT 2		DATE	
Person, J					9/7/2002	