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COATED COATED FOR WHI	CTION OF SEAL AND FINISH STEEL SUBSTRATES CH DOCUMENTATION ING OR DISCREPANT	APPROVED BY	WE THE	West -	7/29/8 7/29/83 0AVE 7/29/83 DATE
1.0	REFERENCES				
1-A	Nonconformance and C+81+01567	Report Numbers	C-81-01370	through C-81	-01373
1-8	CP+QP+18.0, "I	espection Report	s"		
1-0	CCP+30, "Coati	ng Steel Substr Areas"	rates Inside	Reactor Buil	dings
1-0	CCP+30A, "Coat and Radiation	ing Steel Subst Areas"	rates Inside	Reactor Buil	dings
1-E	QI-QP-11.4-1, Preparation an	"Inspection of Primer Applica	of Steel Stion"	Substrate Su	rface
1 - F	QI+QP+11.4+5, and Seal and F	"Inspection of inish Coat Appli	Steel Substration and R	rate Primer R	Repair
1-6	CP-QP-15.0, "T	agging System"			
2.0	GENERAL			9 .	
2.1	FURPOSE AND SC	OPE			
	Control in the and adhesion to coat applicat Mark II Tooke respectively.	on shall describe measurement of to steel substrations described Gage and the The above tescessitate a replocation.	the dry ffl tes of exist in Reference Elcometer 10 ts are dest	m thickness ing seal or f ie 1-A using 6 Adhesion T ructive in n	(DFT) inish g the ester
3.0	IMSTRUCTION				*
	which document	or finish coate tation is missi Paragraphs 3.1 a s indicated ther	ing or disci	repant, the	tests

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3.1 TOOKE TEST (SCRATCH TEST)

The scratch test shall be performed by using a Mark II Tooke Inspection Gage using a 2X tip.

A daily confidence check shall be performed to insure accuracy of the Tooke Gage. The gage shall be inspected for damage, tip ware and a scratch shall be made with the Tooke Gage and compared to a reading obtained using a calibrated Elcometer Inspection DFT Gage or equivalent. The reading obtained with the 2X tip of the Tooke Gage shall not vary by more than ± 0.5 mils from that obtained with the Eclometer Inspection DFT Gage.

Five separate Tooke readings spaced evenly over each seal or finish coated item (See Note 1) shall be taken. Dry film thickness shall be as follows:

	Any Single Reading	Average of Five
CZ 11 Primer	1.5 + 5.5 1.5 + 5.5	1.5 • 5.5 1.5 • 5.5
Total Coating System	7.0 + 11.5	7.0 - 11.0

In the event that any reading(s) is found to be outside of the acceptable primer thickness range, additional readings shall be taken to determine the extent of the unacceptable area. Dimensions and locations of unacceptable areas and results of additional testing shall be documented on Attachment 1.

In the event that the average of the area is unacceptable due to unacceptable spot readings, the unacceptable spots shall be isolated as described above. Additional spot readings shall be taken equal to the number of unacceptable spot readings and the average recalculated. Results of these additional readings shall be documented in the "Remarks" area of the IR. If the recalculated average is acceptable, the IR shall be so marked with an explanation in "Remarks" stating that "average recalculated + now acceptable", or wording to that effect. If the recalculated average is unacceptable, the unacceptable spots shall be isolated (as described above) and the above re-averaging process repeated.

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NOTE 1: For small areas of seal or finish coated surfaces, five separate readings shall be taken. For items with less than 5 square feet of exposed coating, a minimum of three separate readings shall be taken. For larger seal or finish coated areas such as containment liner plate, five separate readings randomly spaced shall be taken for each 100 square feet of coating.

NOTE 2: Seal or finish coated surfaces meeting the following descriptions shall not be subject to testing with the Tooke gage:

- a. Areas or items which are inaccessible due to installation of permanent items or equipment.
- b. Items that due to their size or configuration will not accomodate testing with a Tooke gage.
- c. Areas or items which have acceptable Primer Records shall be tested with a Eclometer Inspection DFT Gage or equivalent for total system.

3.2 ADHESION (PATCH) TEST

The QC inspector shall perform one Adhesion (Patch) Test for every 500 sq. ft. for coating on the containment liner plate. A calibrated Elcometer 106 Adhesion Tester shall be used to verify that the minimum acceptable tensile strength of adhesion of the coating system to the steel substrate has been attained. Each test shall consist of three individual dollies tested to failure.

Areas or items which are inaccessible due to installation of permanent items or equipment.

Acceptance Criteria:

The minimum acceptable strength per dolly shall be 200 psi.

If a dolly should fail the minimum strength criteria, the following additional adhesion testing shall be performed:

Four additional dollies shall be adhesion tested at approximately one foot from the failing dolly and spaced radially at approximately 90 degree intervals.

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If any of the additional dollies should fail the minimum strength criteria, additional dollies shall be placed and tested in accordance with 3.2 or as applicable until area of loss of adhesion is isolated. This area(s) of coating shall be removed to the substrate, and new coatings applied in accordance with Reference 1-C or 1-D.

3.3 STATUS INDICATORS

During backfit activities when items are unsatisfactory and could be inadvertently recoated with the unsatisfactory condition remaining, a reject tag shall be used in accordance with Reference 1+G. A reject tag shall be placed on the item or area referencing the unsatisfactory Inspection Report number and applicable NCR.

3.4 DOCUMENTATION

Results of inspections per Paragraphs 3.1 through 3.2 shall be documented on Inspection Report, Attachment 1, in accordance with Reference 1+B. The completed IR shall be forwarded to the PPRV for retention. For inspections of coated containment liner surfaces, the Inspector may document one IR for each 500 square feet of surface area.

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3.5 REPAIRS

Repairs of each coating area either scratch-tested or adhesion tested shall be performed in accordance with Reference 1-C or 1-D and reinspection of repaired coatings shall be in accordance with Reference 1-F.

3.6 MAPPING OF LARGE AREAS

For large areas (such as reactor containment liner plate) each IR No. and the inspection area to which the IR corresponds shall be indicated on the map drawing.

The map drawing shall be maintained by the QC Supervisor, or his designee, until the entire surface has been inspected as required. Completed map drawings shall be transmitted to the Permanent Plant Records Vault.

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Attachment 1

NSPECTION		3. Rev	HANGE N	c.	MEA	SUME O	A TEST	EGUIN	DENT. N	G.
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