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CONTROL OF PROTECTIVE COATINGS FIELD VERIFICATION ACTIVITIES		PREPARED BY <u>Mark Wells</u> APPROVED BY <u>R. M. Kissinger</u>		

1.0 REFERENCES

- 1-A CP-EP-4.0 Design Control
- 1-B CCP-30 Coating Steel Substrates Inside Reactor Building and Radiation Areas
- 1-C CCP-40 Protective Coating of Concrete Surfaces

2.0 GENERAL

2.1 PURPOSE

To describe the program used by Engineering (by walkdown) for field verification of protective coatings. This instruction is established to ensure the integrity of design control activities specified per Reference 1-A.

2.2 SCOPE

This instruction is applicable to areas previously "final accepted" (by quality control organizations) in which protective coatings may have been subjected to minor damage and require minor repair.

2.3 RESPONSIBILITY

The CPP Civil/Structural Engineer has been delegated the responsibility for the implementation of the measures described herein.

Where specific individuals are identified by position in this instruction, properly authorized designees may be delegated to act in that capacity.

2.4 DEFINITIONS

2.4.1 Minor Damage

Type 1 - Damage of finish coat only regardless of size - primer and/or intermediate coat unaffected.

Type 2 - Damage to primer coat regardless of size. (Substrate unaffected).

Type 3 - Damage to substrate for areas less than or equal to 4 sq. in.

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#### 2.4.2 Major Damage

Damage to substrate for areas greater than 4 sq. in.

### 3.0 INSTRUCTION

#### 3.1 MINOR DAMAGE REPAIR

Based upon the type of damage, all repairs shall be performed as follows by qualified applicators using approved materials as established by previously approved construction procedures/instructions.

- a. Type 1 - Remove foreign matter, solvent wipe and apply finish coat (1 to 3 mils).
- b. Type 2 - Lightly abrade, solvent wipe and apply finish coat (4 to 6 mils).
- c. Type 3 Minor - Abrade, solvent wipe and apply finish coat (4 to 6 mils).

#### 3.2 MAJOR DAMAGE REPAIR

Major damage shall be repaired as follows.

- a. A traveler will be issued for any area or item that has not been coated, or requires major repair.
- b. The area or item will be cleaned and coated in accordance with Reference 1-B or 1-C.
- c. Inspection will be in accordance with the appropriate QC procedure (normally QI-QP-11.4-26 or QI-QP-11.2-27).

#### 3.3 FIELD VERIFICATION

Repair activities shall be verified by Engineering by completion of the Coatings Walkdown Report (Figure 1) in accordance with Attachment 1.

Upon completion of repair activities, the completed report shall be forwarded to the appropriate building management group for submittal to the Permanent Plant Records Vault (PPRV). After submittal, building management controls will preclude additional coatings activities in the area(s) specified on the report.

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Note, for repair areas where travelers are required, engineering shall be notified of traveler completion. Completion of the traveler (and notice) shall constitute completion of the walkdown for that area.

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# ATTACHMENT 1

## FORM COMPLETION

The Coatings Walkdown Report (CWR) form shall be completed as follows. The form should be completed using black ink or equivalent.

- a) A1 or B1 Area - Work scope (area, room, etc.) as designated by the appropriate building management group.
- b) A2 or B3 Repair or Touch-up - Specify type of damage as defined per Section 3.1.
- c) A3 or B4 Coatings - a) Specify the brand and product number of the coating. The "Batch Log No." and "date" shall be obtained from the construction mixing station.  
b) Specify the name of the applicator.
- d) B.2 Item (Steel Surface only) - Specify the structure, part or item.
- e) Signed By & Date - The CWR shall be signed and dated by the CPP Civil Engineer or his designee.

Note: If no repair or touch-up is required, NA the Section.

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FIGURE 1

COATINGS WALKDOWN REPORT

(TYPICAL)

A. CONCRETE SURFACE

1. Area: \_\_\_\_\_
2. Repair or Touch-up:
  - a) Type (Reference Section 3.1) \_\_\_\_\_
3. Coatings:
  - a) Finish Coat Required \_\_\_\_\_ Batch Log No. \_\_\_\_\_,  
Date \_\_\_\_\_
  - b) Qualified Applicator \_\_\_\_\_

B. STEEL SURFACE

1. Area: \_\_\_\_\_
2. Item: \_\_\_\_\_
3. Repair or Touch-up:
  - a) Type (Reference Section 3.1) \_\_\_\_\_
4. Coatings:
  - a) Finish Coat Required \_\_\_\_\_, Type & Batch Log No. \_\_\_\_\_,  
Date \_\_\_\_\_
  - b) Qualified Applicator \_\_\_\_\_

Signed by: \_\_\_\_\_

Date: \_\_\_\_\_

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