

Davis-BesseNPEm Resource

From: CuadradoDeJesus, Samuel
Sent: Thursday, October 06, 2011 4:16 PM
To: custerc@firstenergycorp.com
Cc: dorts@firstenergycorp.com; Davis-BesseHearingFile Resource
Subject: FW: Davis Besse - External Moisture Barrier - IWE Inspection Requirements
Attachments: IWE requirement for moisture barriers.pdf

Cliff:

The attached IWE requirements are the basis for the staff position on RAI B.2.22-5.

Regards,

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REQUIREMENTS FOR CLASS MC COMPONENTS

Figs. IWE-2500-1,
IWE-2500-2

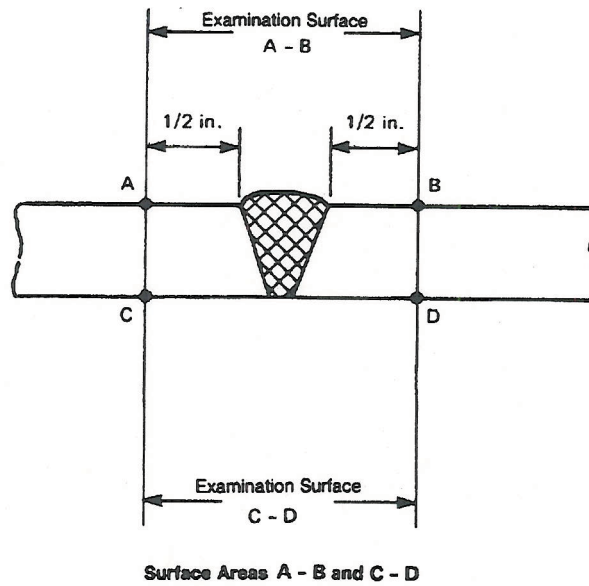


FIG. IWE-2500-1 DISSIMILAR METAL WELDS

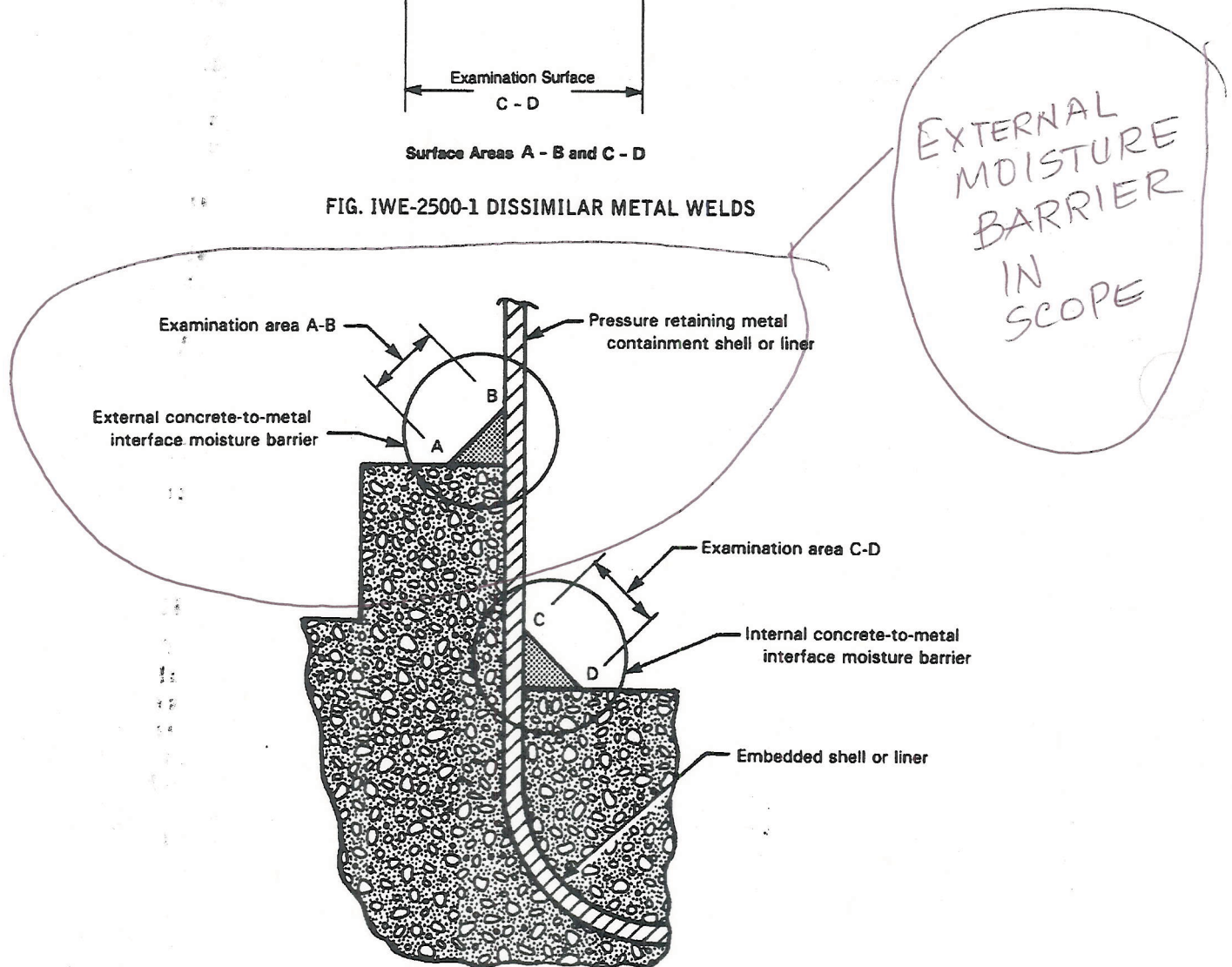


FIG. IWE-2500-2 EXAMINATION AREAS FOR MOISTURE BARRIERS

IWE-3512.2

REQUIREMENTS FOR CLASS MC COMPONENTS

IWE-3515.2

in accordance with IWE-3122. Supplemental examinations in accordance with IWE-3200 shall be performed when specified as a result of the engineering evaluation.

that may violate the leak-tight integrity. Defective items shall be corrected.

A95

IWE-3512.3 Ultrasonic Examination. Examinations of Class MC pressure retaining components that detect material loss in a local area exceeding 10% of the nominal wall thickness, or material loss in a local area projected to exceed 10% of the nominal wall thickness prior to the next examination, shall be documented. Such local areas shall be accepted by engineering evaluation or corrected by repair/replacement activities in accordance with IWE-3122. Supplemental examinations in accordance with IWE-3200 shall be performed when specified as a result of the engineering evaluation.

IWE-3514 Standards for Examination Category E-F, Pressure Retaining Dissimilar Metal Welds

IWE-3514.1 Surface Examinations. The acceptance standards of IWB-3514 shall apply within the examination boundary of Fig. IWE-2500-1.

IWE-3515 Standards for Examination Category E-G, Pressure Retaining Bolting

IWE-3515.1 Visual Examinations. Bolting materials shall be examined in accordance with the material specification for defects which may cause the bolted connection to violate either the leak-tight or structural integrity. Defective items shall be corrected by repair/replacement activities.

A95

IWE-3513 Standards for Examination Category E-D, Seals, Gaskets, and Moisture Barriers

A95 IWE-3513.1 VT-3 Visual Examinations. Seals, gaskets, and moisture barriers shall be examined for wear, damage, erosion, tear, surface cracks, or other defects

IWE-3515.2 Bolt Torque or Bolt Tension. Either bolt torque or bolt tension shall be within the limits specified for the original design. If no limits have been specified, acceptable bolt torque or bolt tension limits shall be determined and utilized.

DEFECTIVE/DEGRADED
MOISTURE BARRIER
TO BE REPLACED
(STANDARD PRACTICE)
& CODE
REQUIREMENT

REQUIREMENTS FOR CLASS MC COMPONENTS

Table IWE-2500-1

TABLE IWE-2500-1 (CONT'D)
EXAMINATION CATEGORIES

EXAMINATION CATEGORY E-D, SEALS, GASKETS, AND MOISTURE BARRIERS							
Item No.	Parts Examined ¹	Examination Requirements/ Fig. No.	Examination Method	Acceptance Standard	Extent and Frequency of Examination		
					1st Inspection Interval	Successive Inspection Intervals	Deferral of Inspection to End of Intervals ⁵
E5.10	Seals ¹		Visual, VT-3	IWE-3513	100% of each item	100% of each item	Not permissible
E5.20	Gaskets ¹		Visual, VT-3	IWE-3513	100% of each item	100% of each item	Not permissible
E5.30	Moisture Barriers ^{2,3,4}	IWE-2500-2	Visual, VT-3	IWE-3513	100% of each item	100% of each item	Not permissible
NOTE: (1) Examination shall include seals and gaskets on airlocks, hatches, and other devices that are required to assure containment leak-tight integrity. Sealed or gasketed connections need not be disassembled solely for performance of examinations. (2) Examination shall include internal and external containment moisture barrier materials at concrete-to-metal interfaces intended to prevent intrusion of moisture against the pressure retaining metal containment shell or liner. (3) Containment moisture barrier materials include caulking, flashing, and other sealants used for this application. (4) Examination shall include all accessible surfaces of internal and external containment moisture barriers. (5) Deferral of inspection is not permissible in the 4th and successive inspection intervals.							

BOTH

EXTERNAL & INTERNAL MOISTURE BARRIER

INSPECTION