**Figure A4-1 General Arrangement of Recirculation Sump**

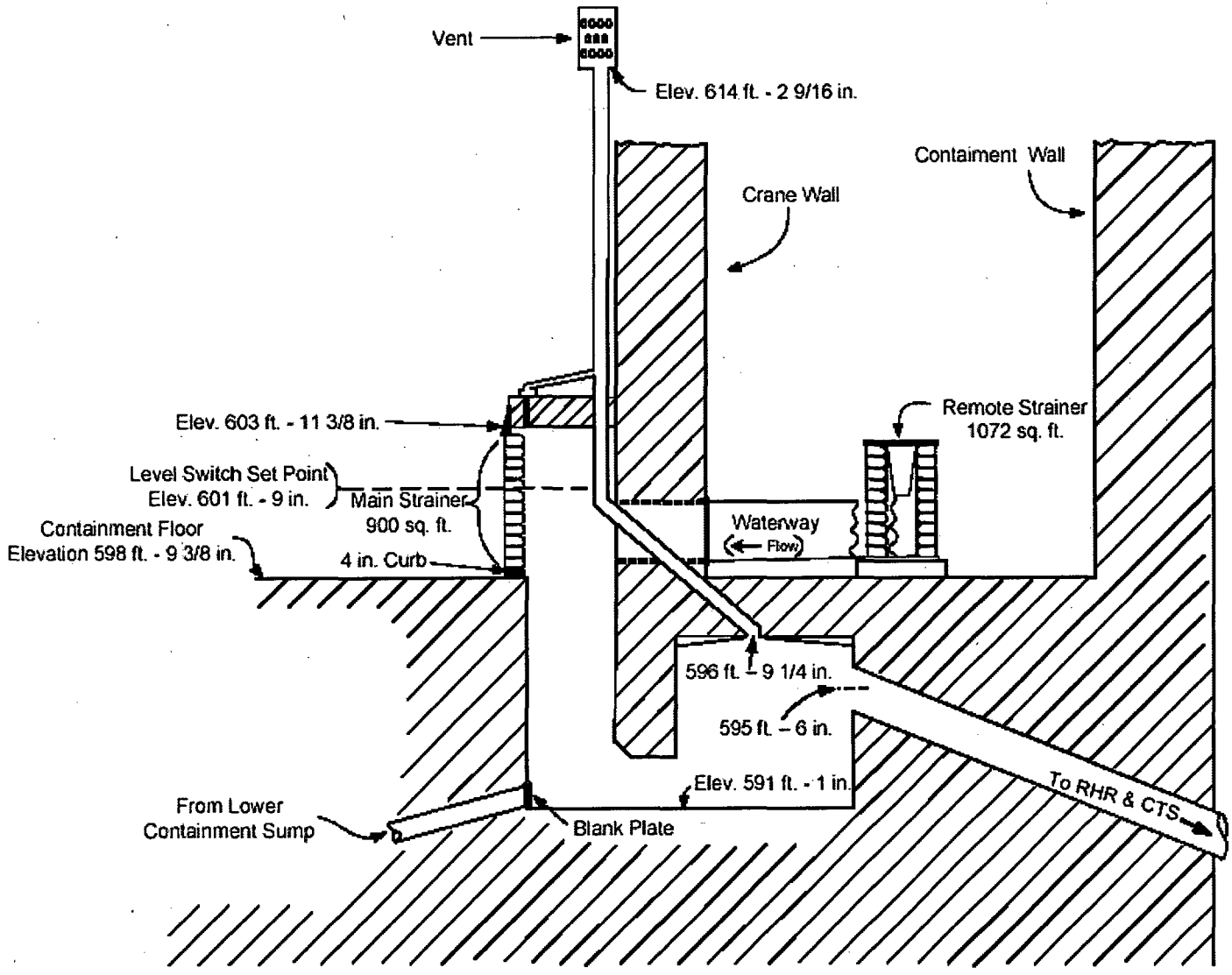
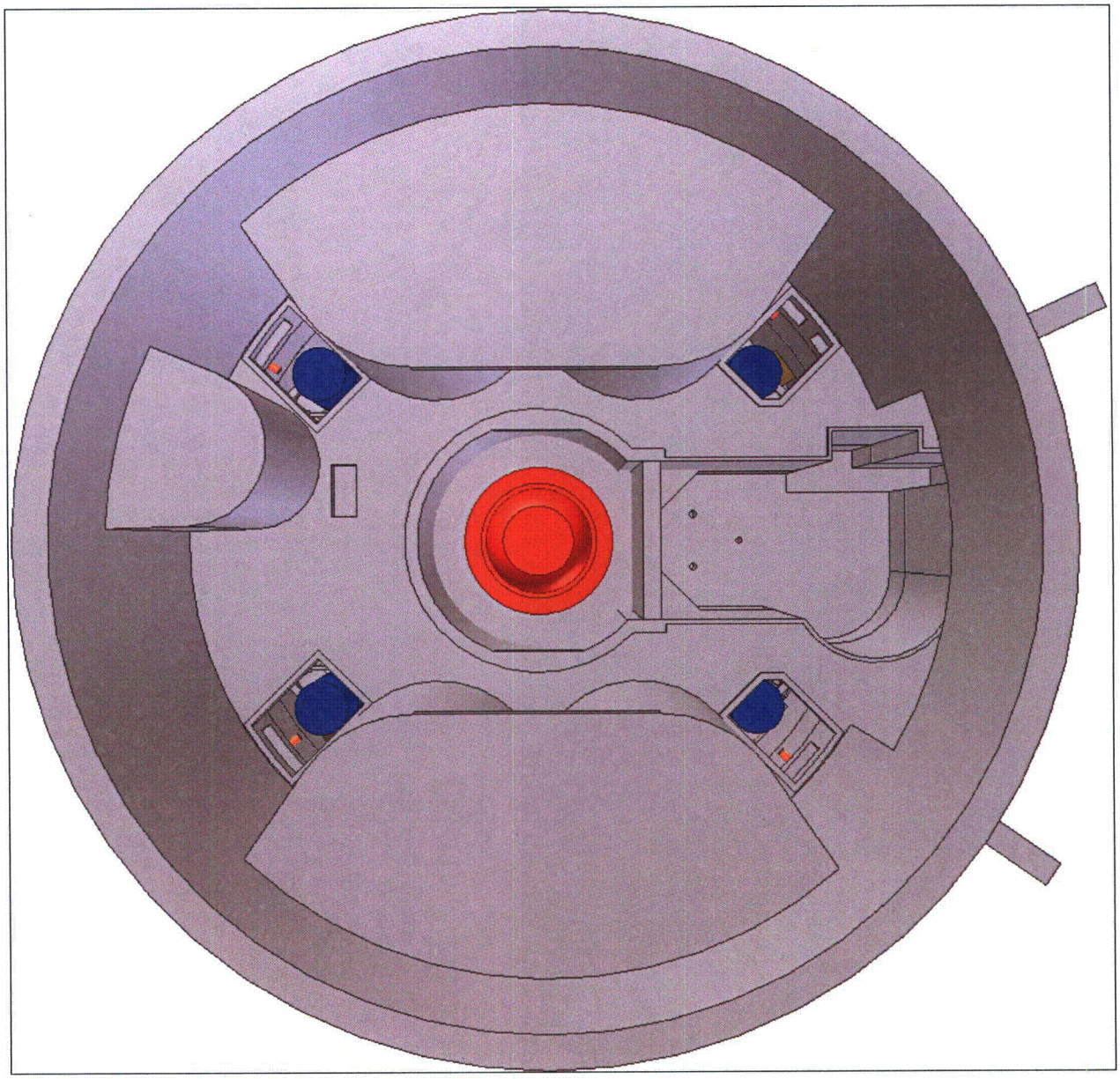


**Figure A4-2 – Plan View of Unit 1 Upper Containment CAD Model**



This view is from the crane wall in toward the reactor. The CRDM missile shields (over the reactor) and RCP hatches are not shown in this illustration.

**Figure A4-3 – Plan View of Unit 1 Lower Containment CAD Model**

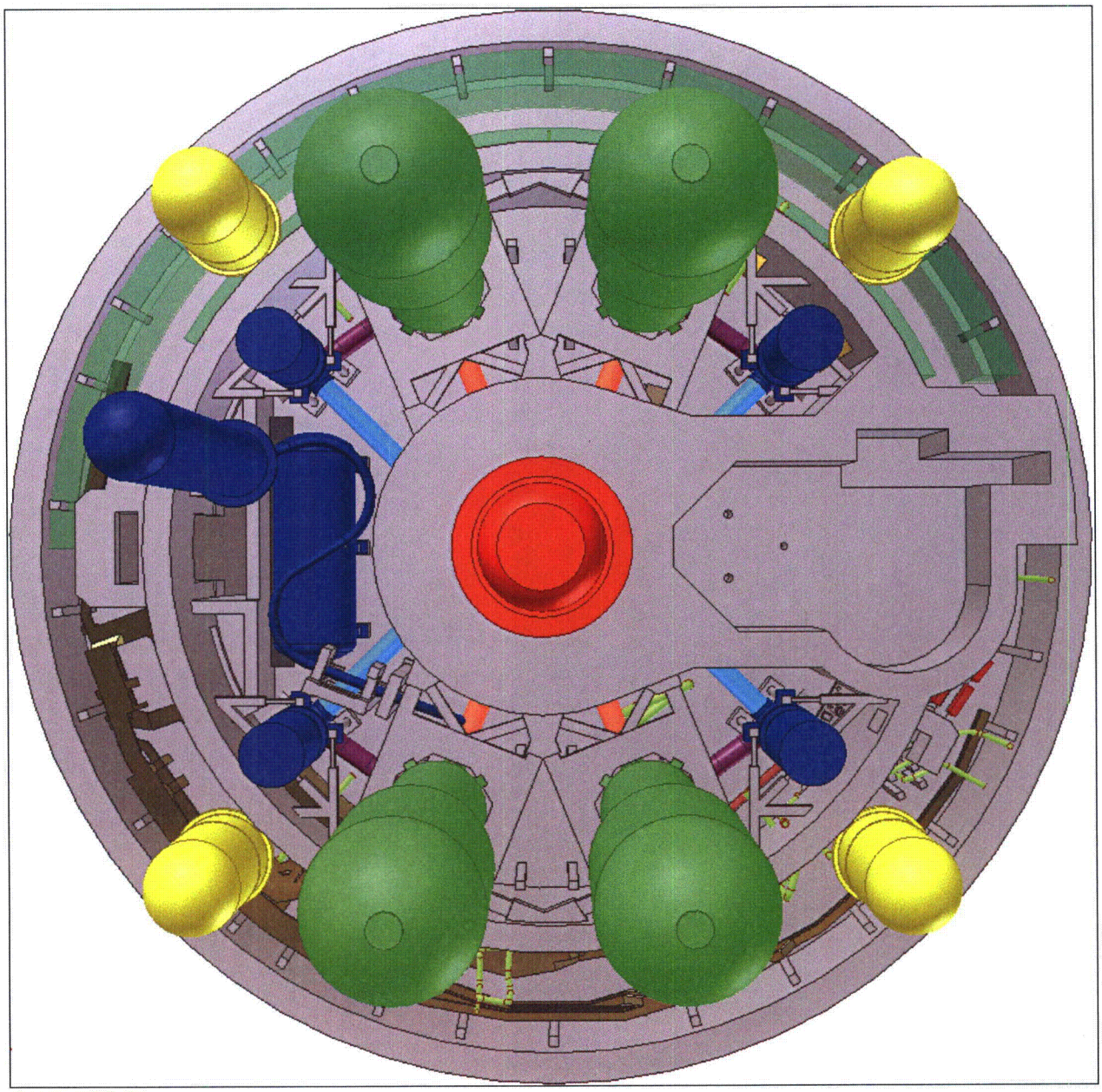


**Figure A4-4 – Southwest Isometric View of Unit 1 Lower Containment CAD Model**

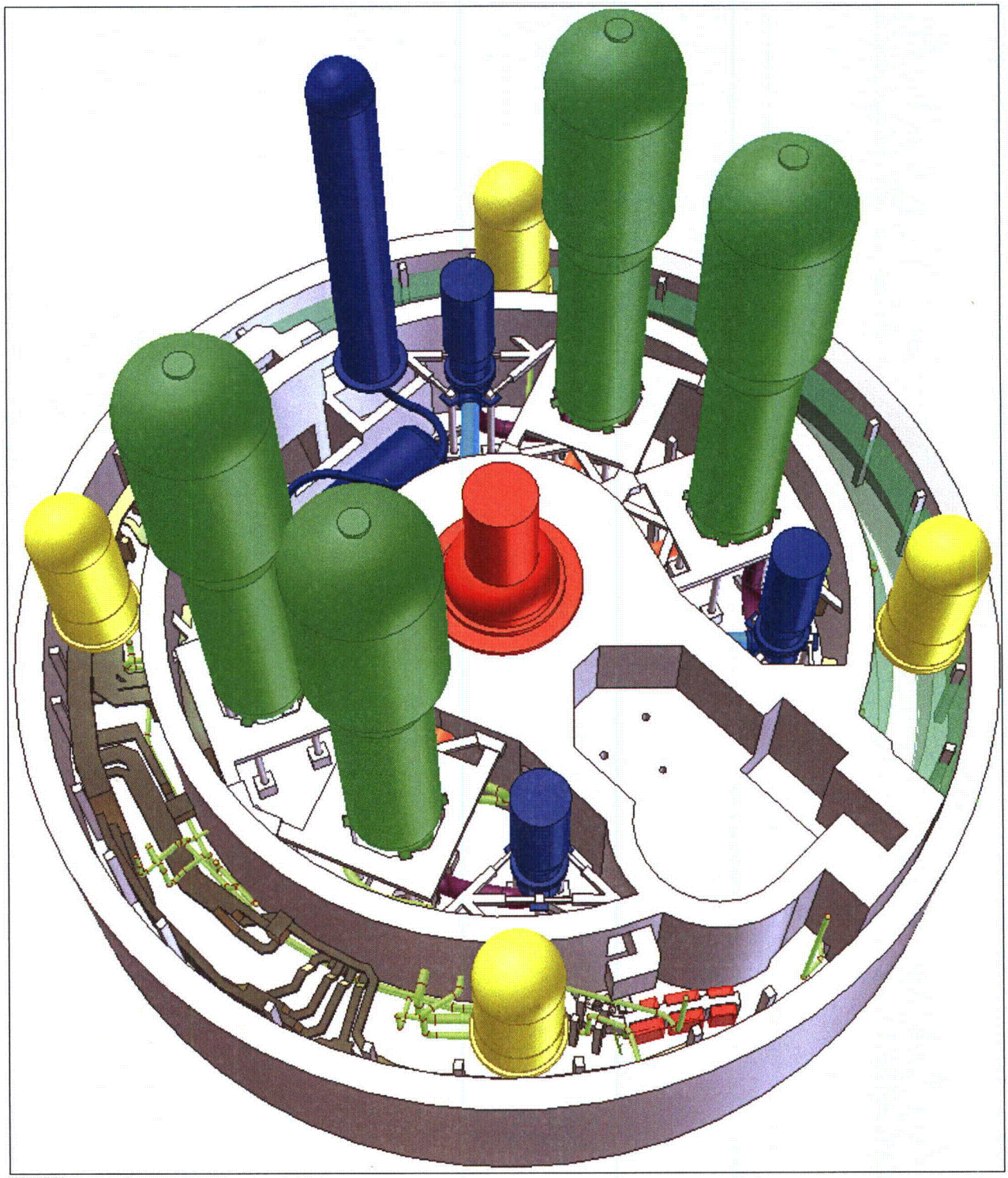


**Figure A4-5 – Southeast Isometric View of Unit 1 Lower Containment CAD Model**

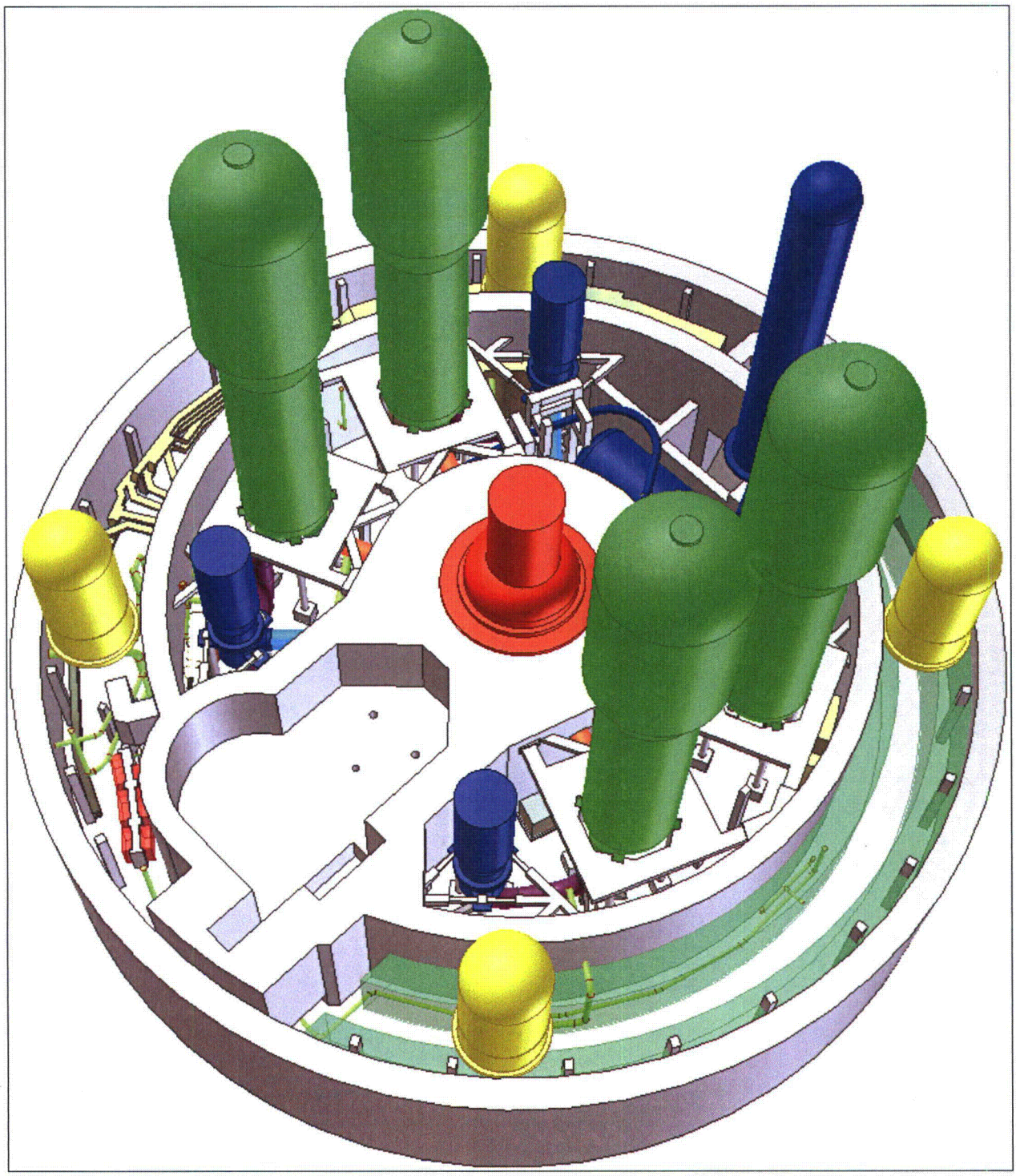


**Figure A4-6 – Northeast Isometric View of Unit 1 Lower Containment CAD Model**

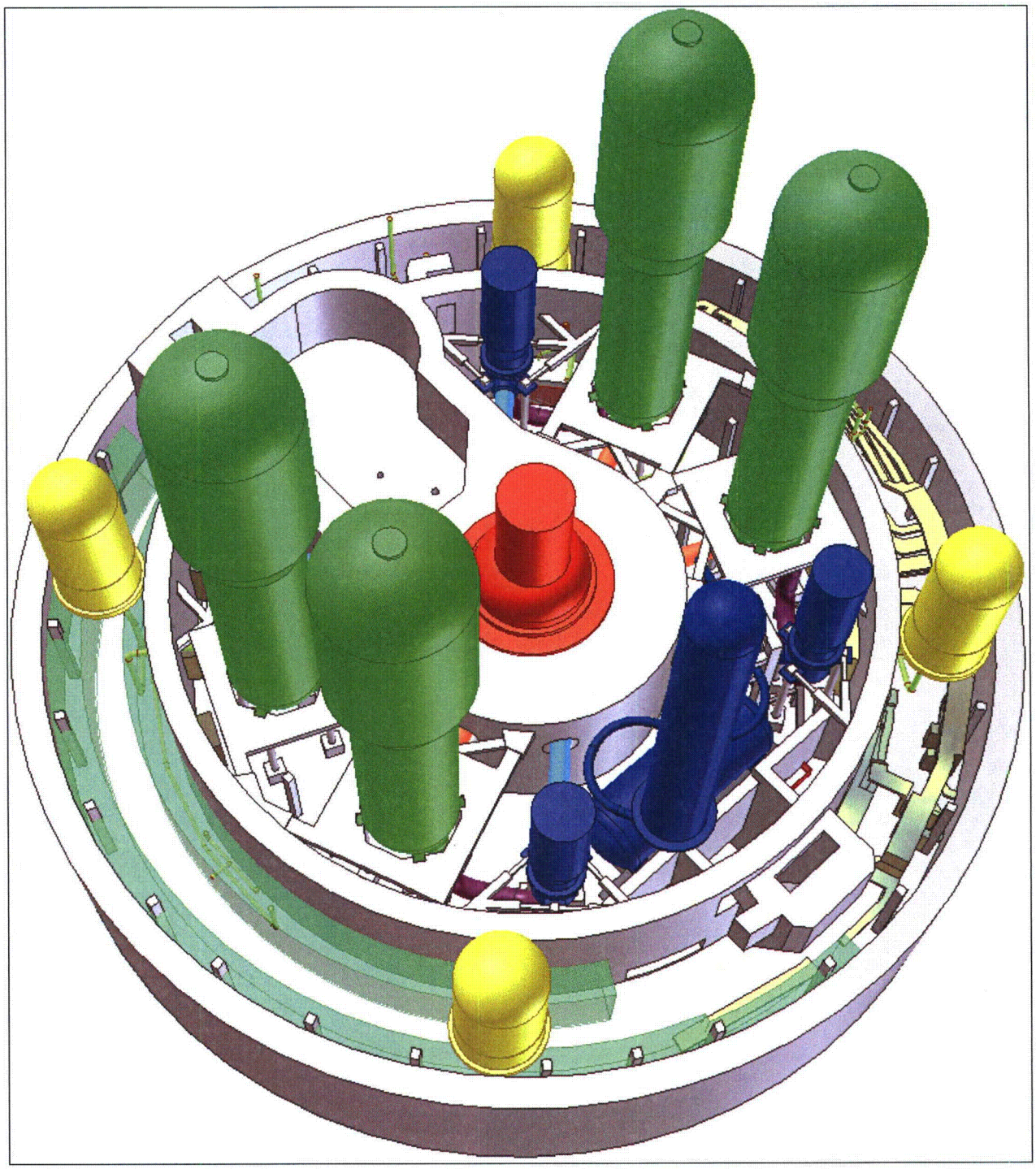


**Figure A4-7 – Northwest Isometric View of Unit 1 Lower Containment CAD Model**

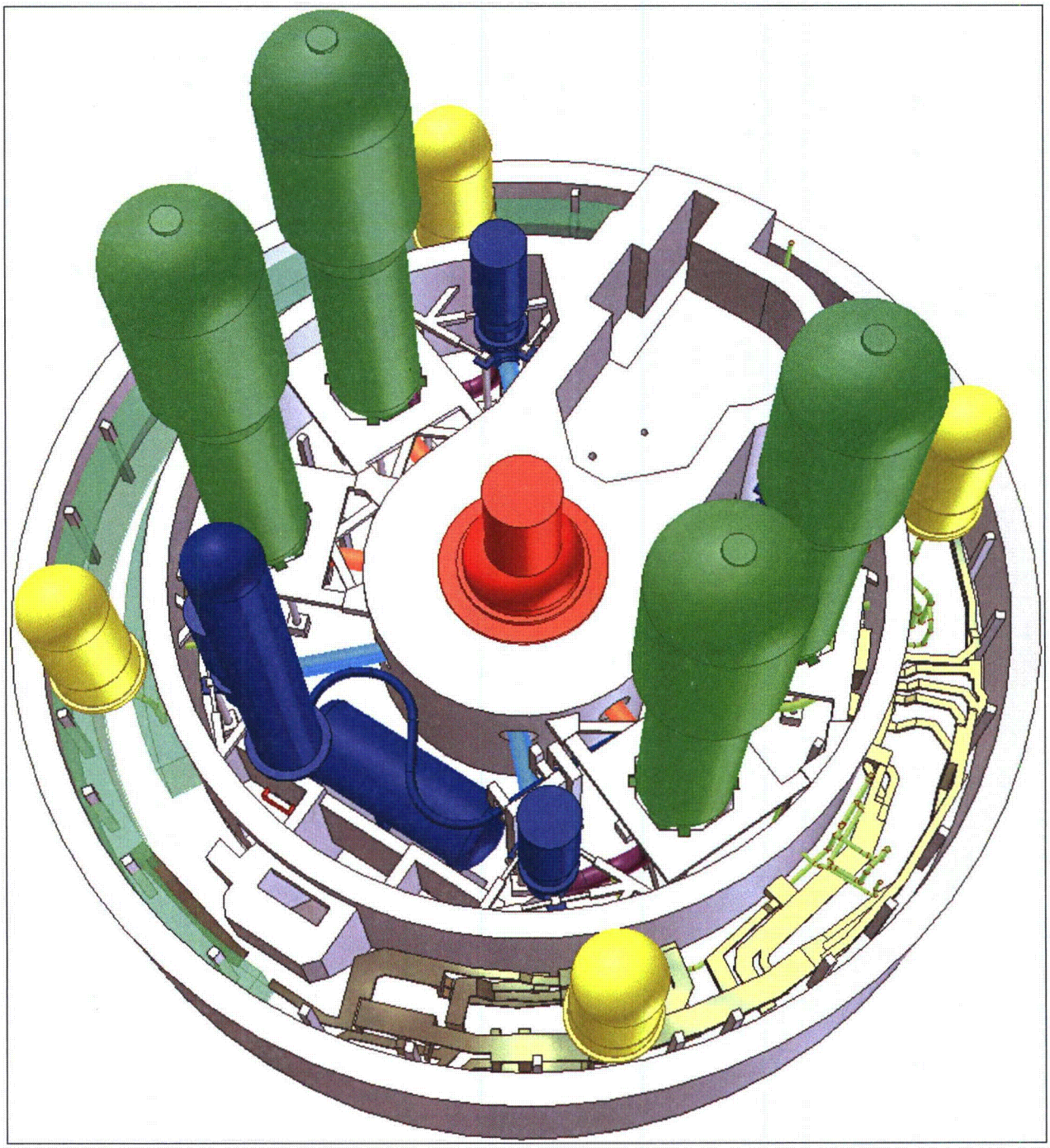


**Figure A4-8 – Isometric View of Unit 1 Area Outside Crane Wall CAD Model**

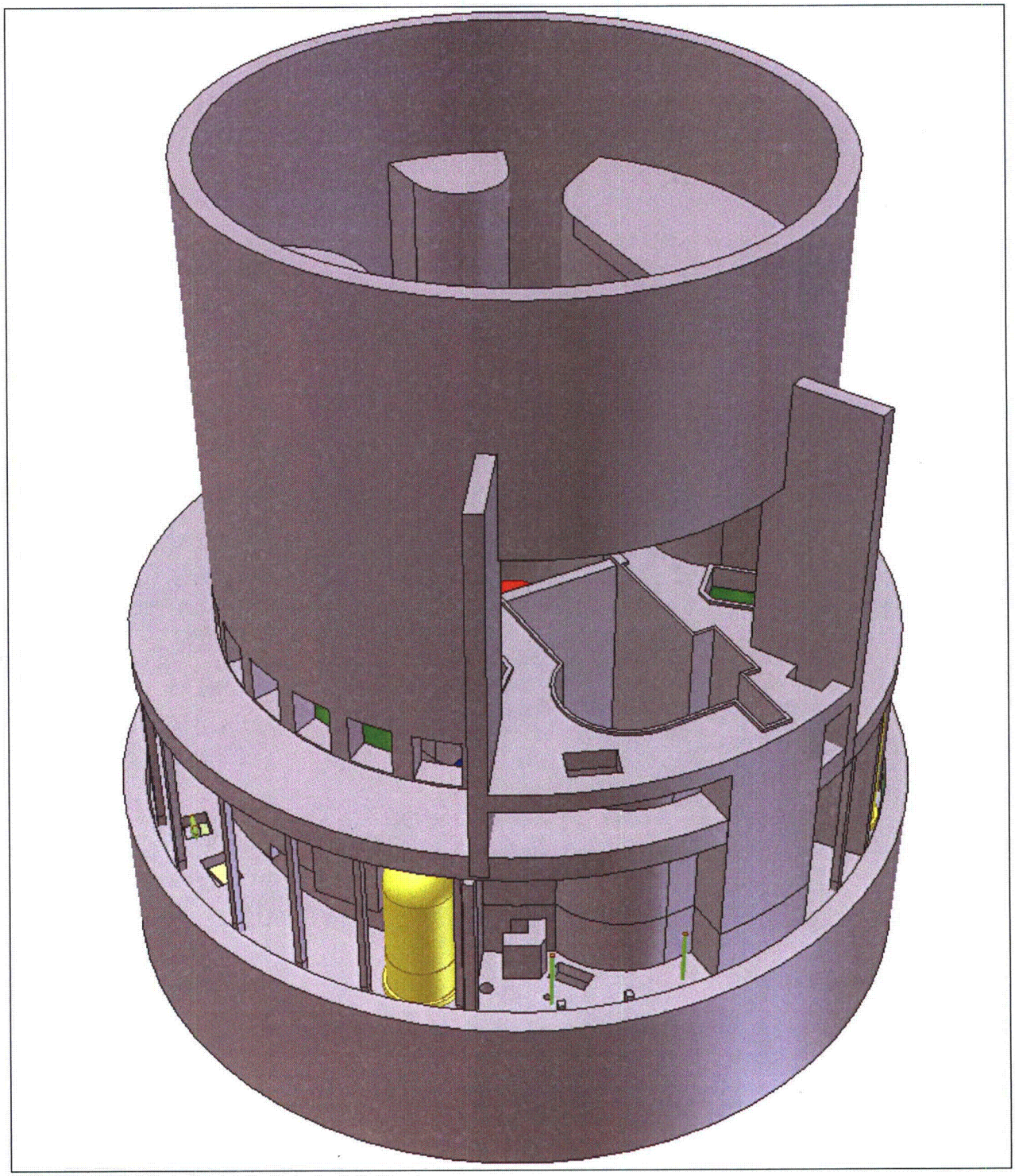


**Figure A4-9 – Close-up of Unit 1 Loop 4 Piping, Equipment, and Supports CAD Model**

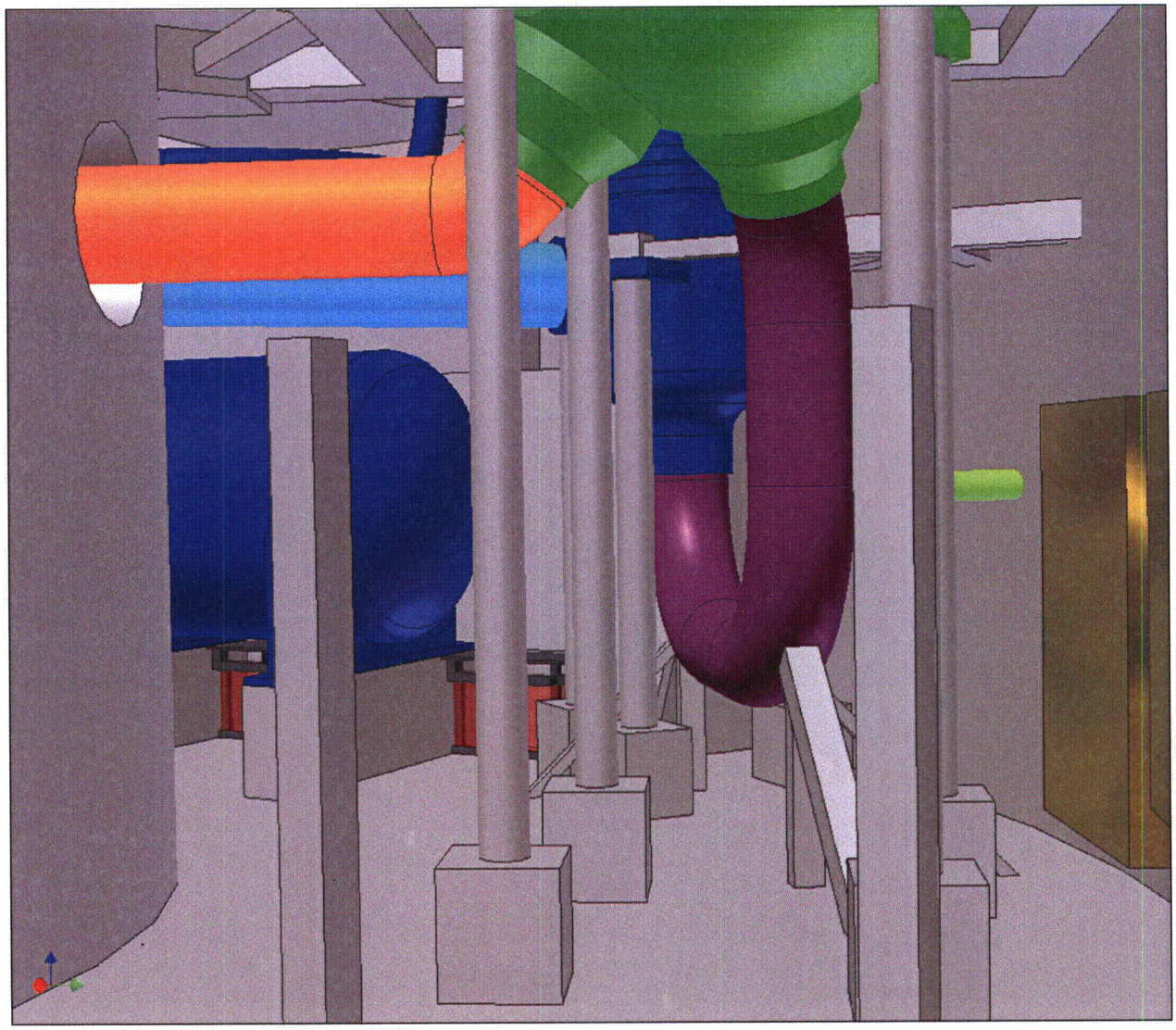


**Figure A4-10 – Close-up of Unit 1 Main Sump Strainer Area CAD Model**

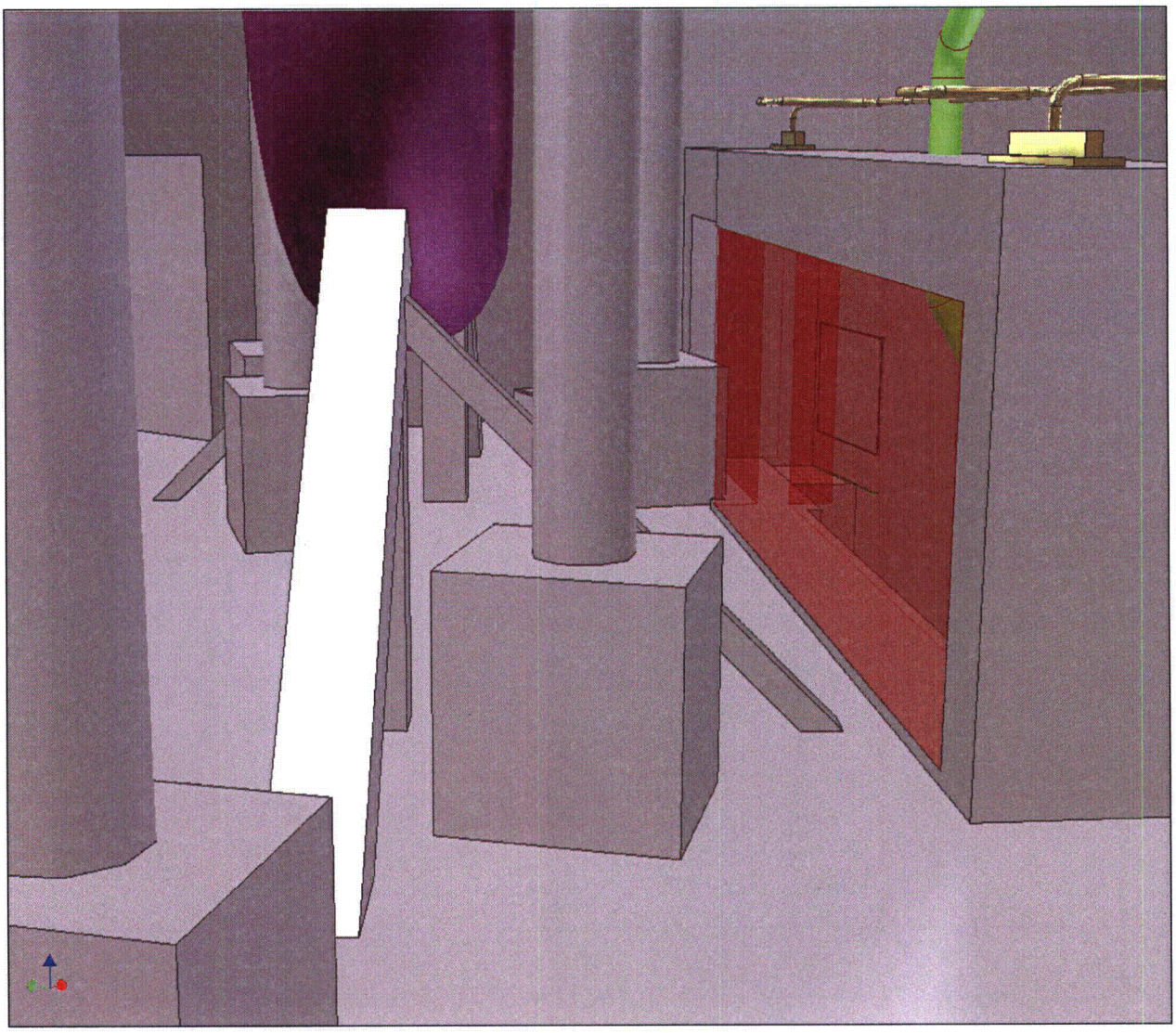


**Figure A4-11 RCS**

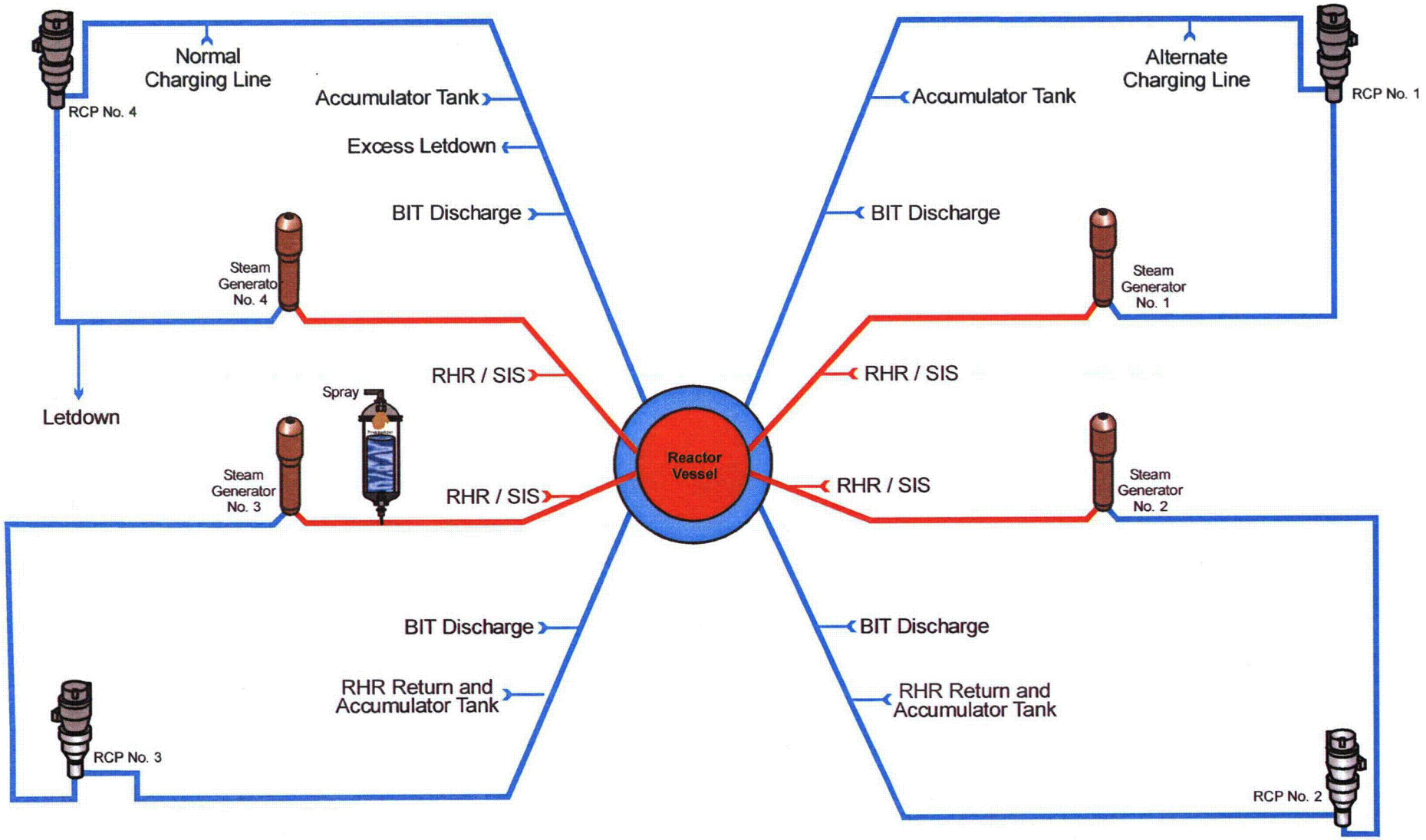
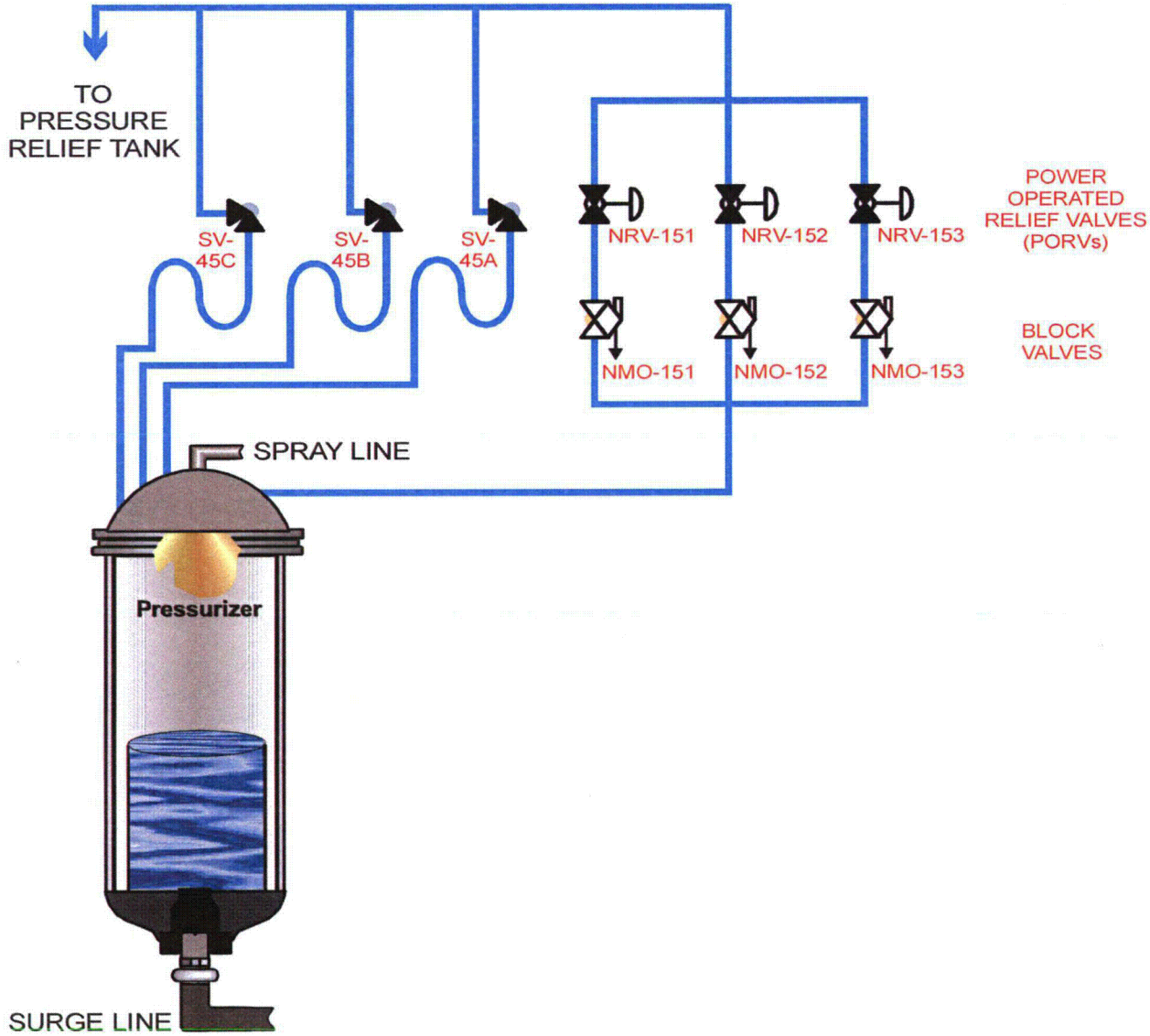
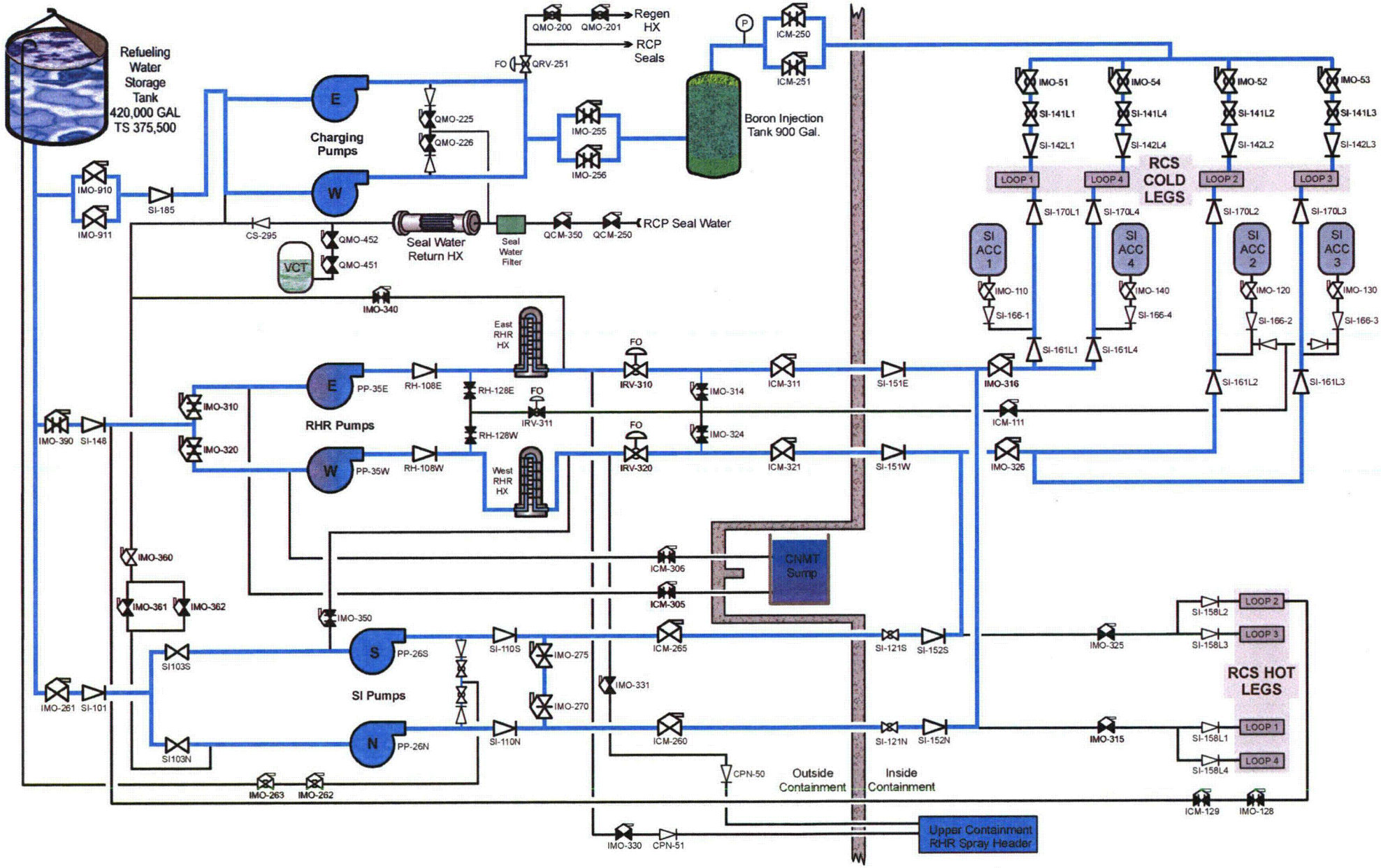


**Figure A4-12 PZR Safety and Relief Valve Piping**



## Figure A4-13 ECCS Injection



## Figure A4-14 ECCS Recirculation

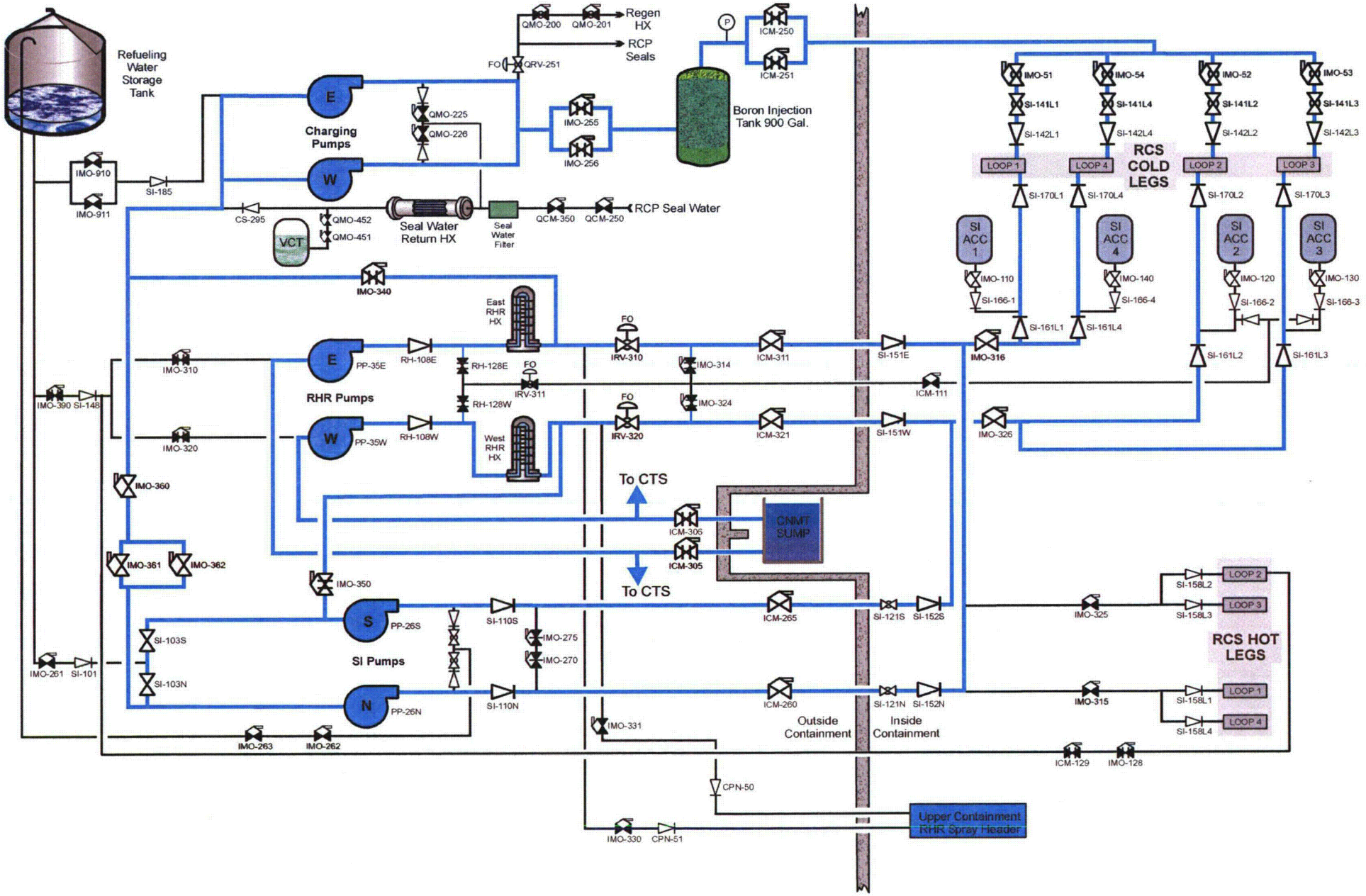


**Figure A4-15 CTS**

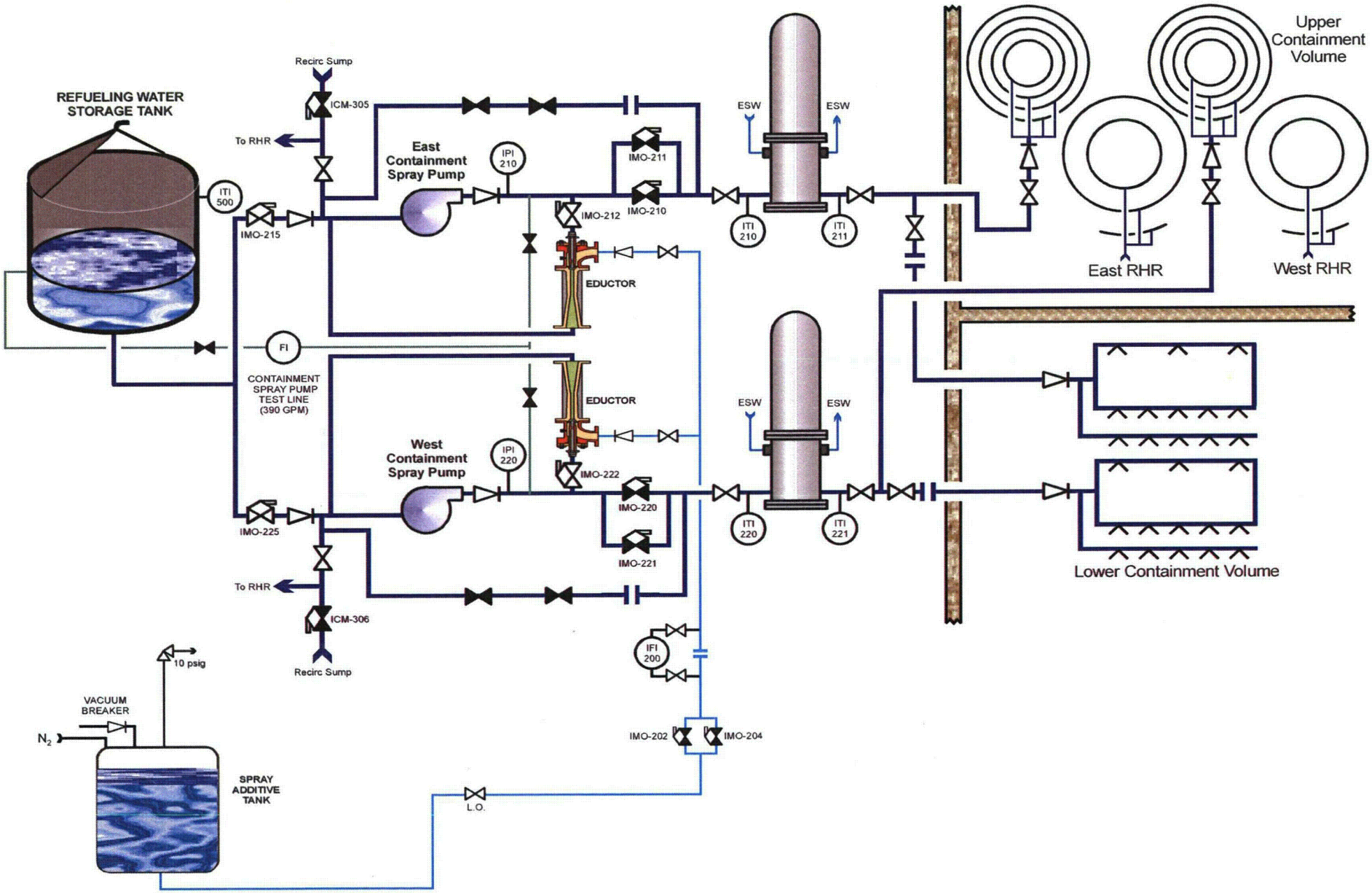


**Figure A5-1 Marinite Test 1 Pre-Test Picture**

**Figure A5-2 Marinite Test 1 Post-Test Picture**

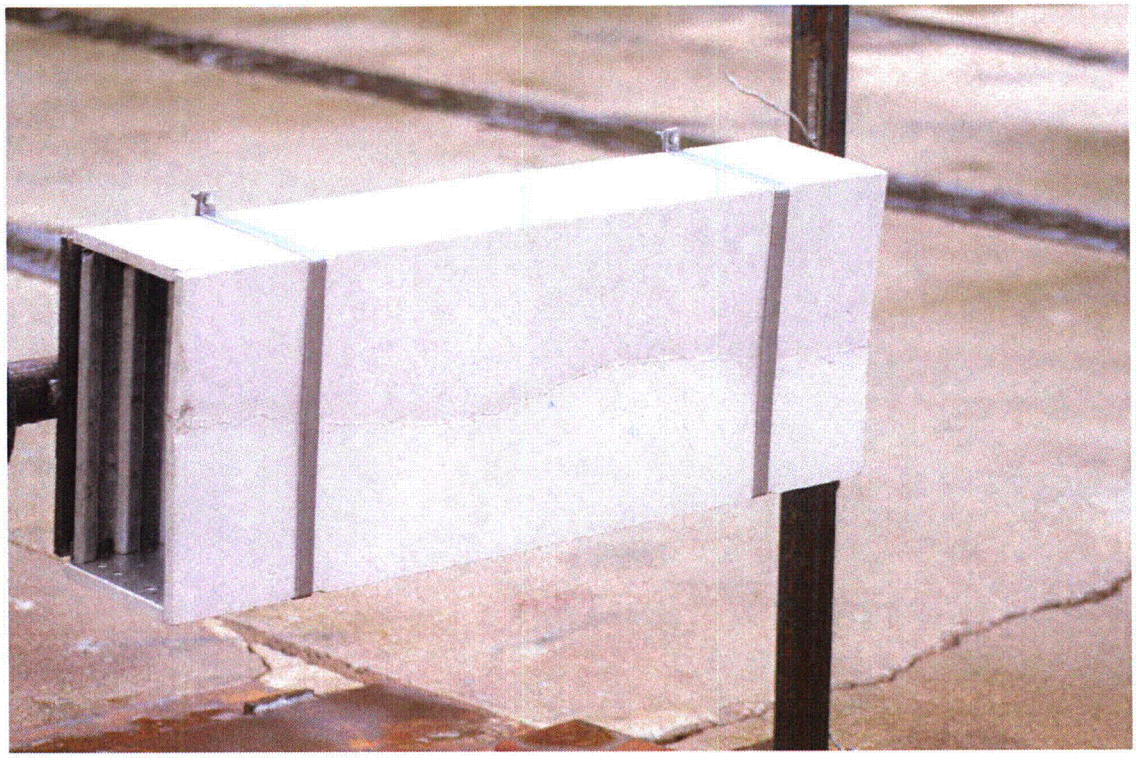


**Figure A5-3 Marinite Test 2 Pre-Test Picture**

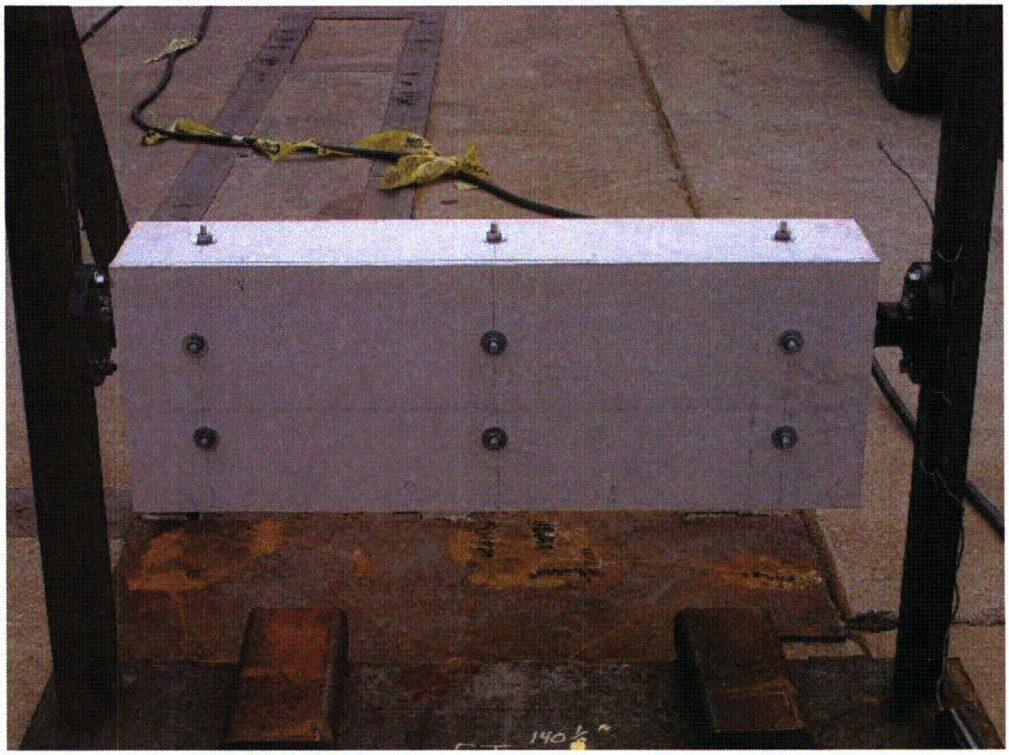


**Figure A5-4 Marinite Test 2 Post-Test Picture**

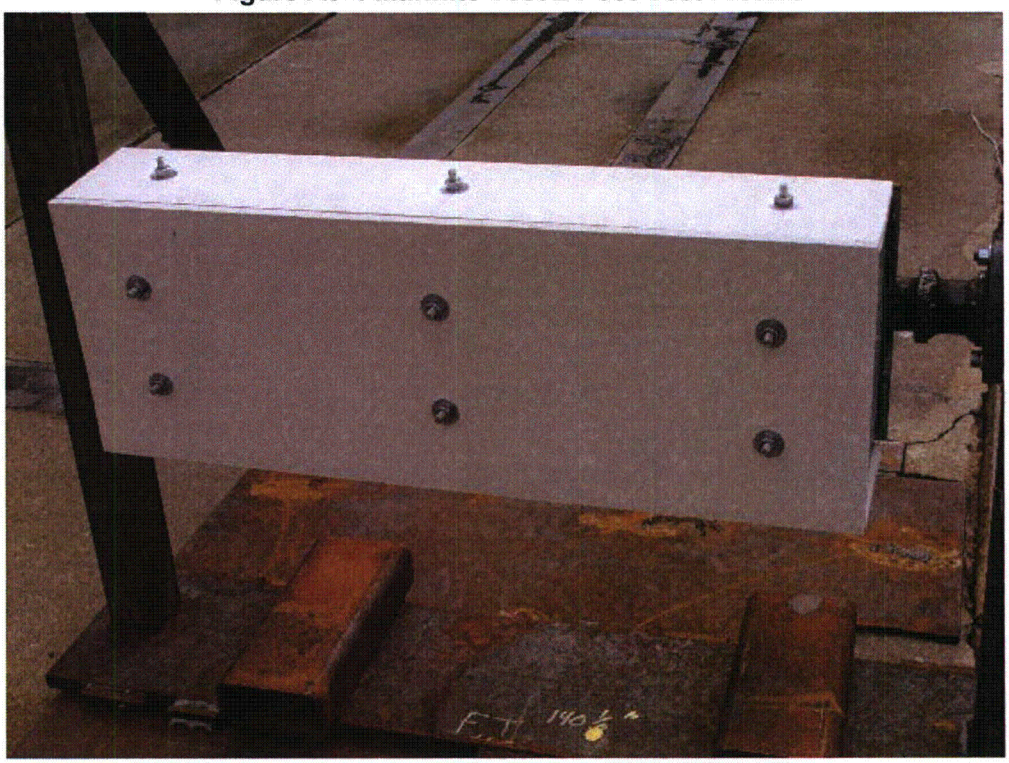


**Figure A5-5 Marinite Test 3 Pre-Test Picture**

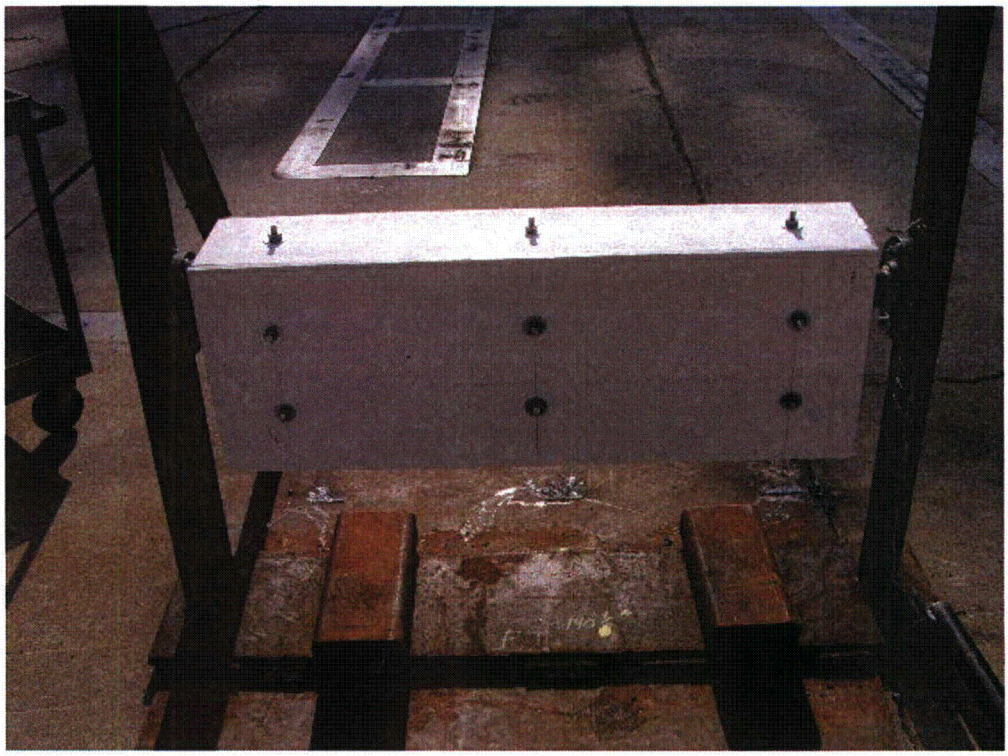


**Figure A5-6 Marinite Test 3 Post-Test Picture**

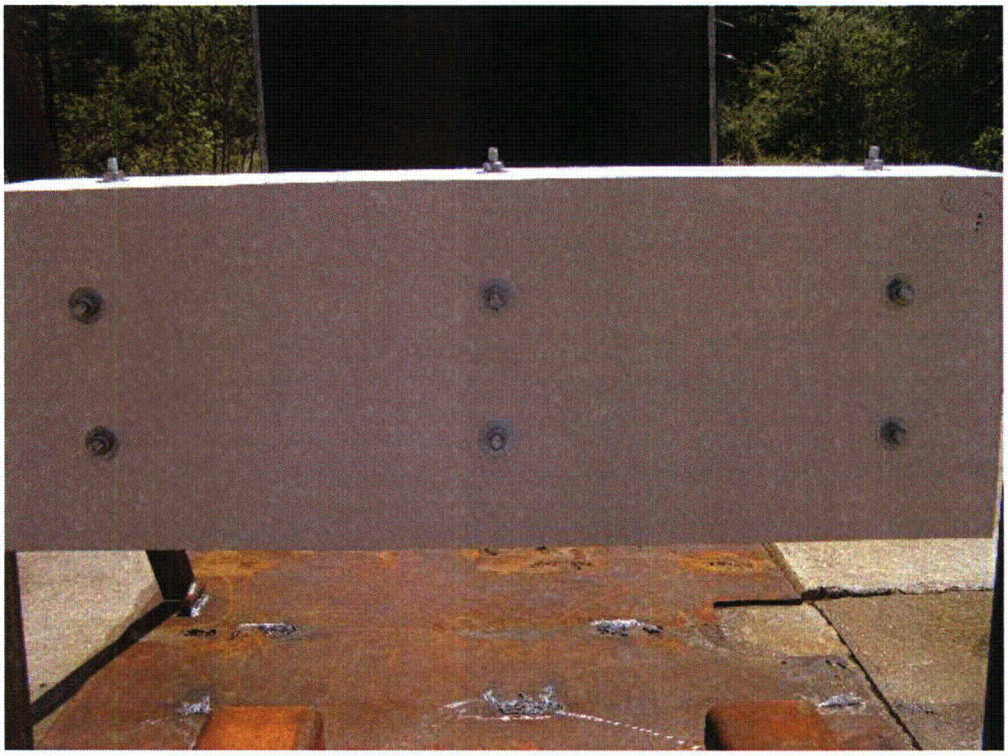


**Figure A5-7 Marinite Test 4 Pre-Test Picture**

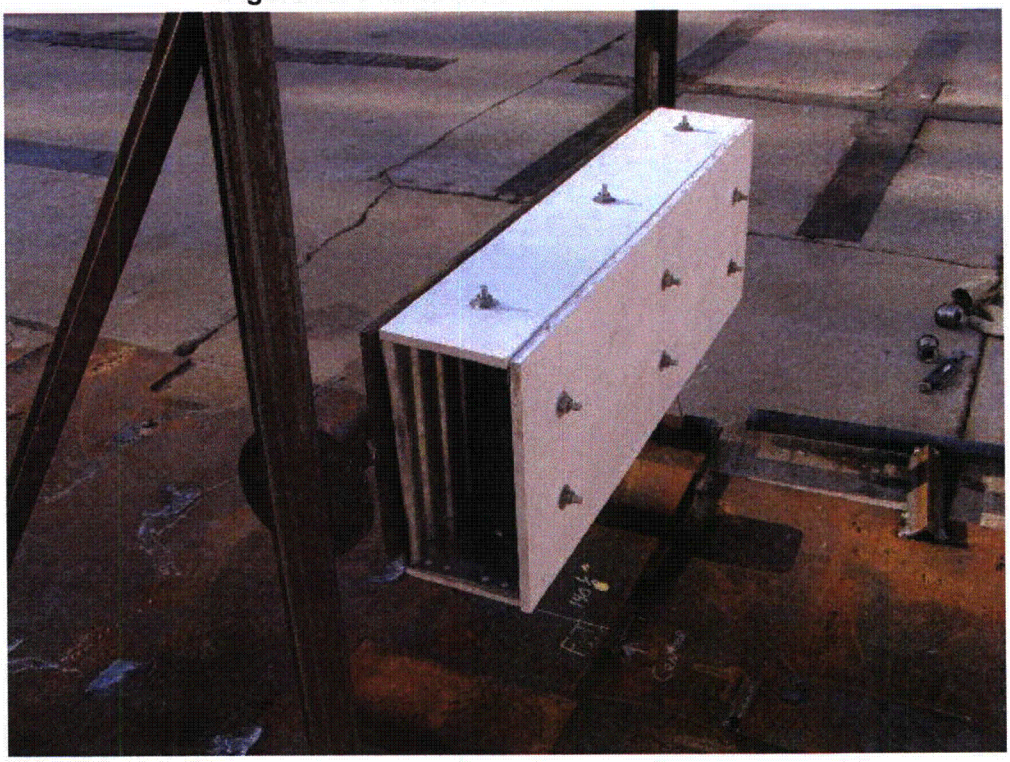


**Figure A5-8 Marinite Test 4 Post-Test Picture**

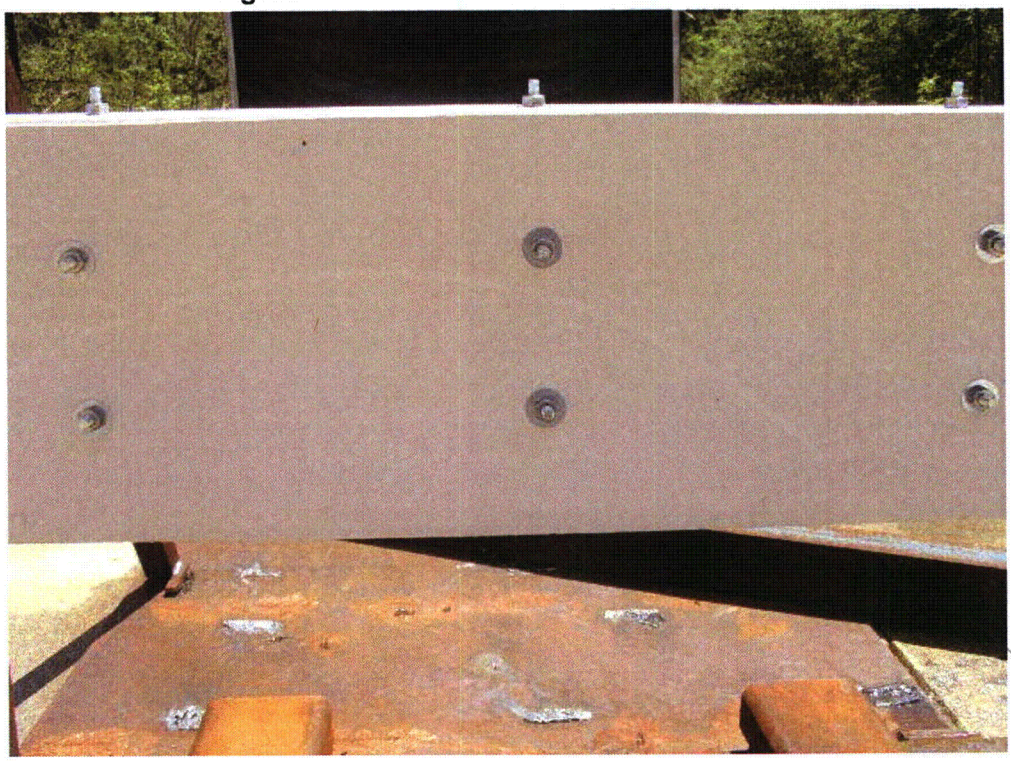


**Figure A5-9 Marinite Test 5 Pre-Test Picture**

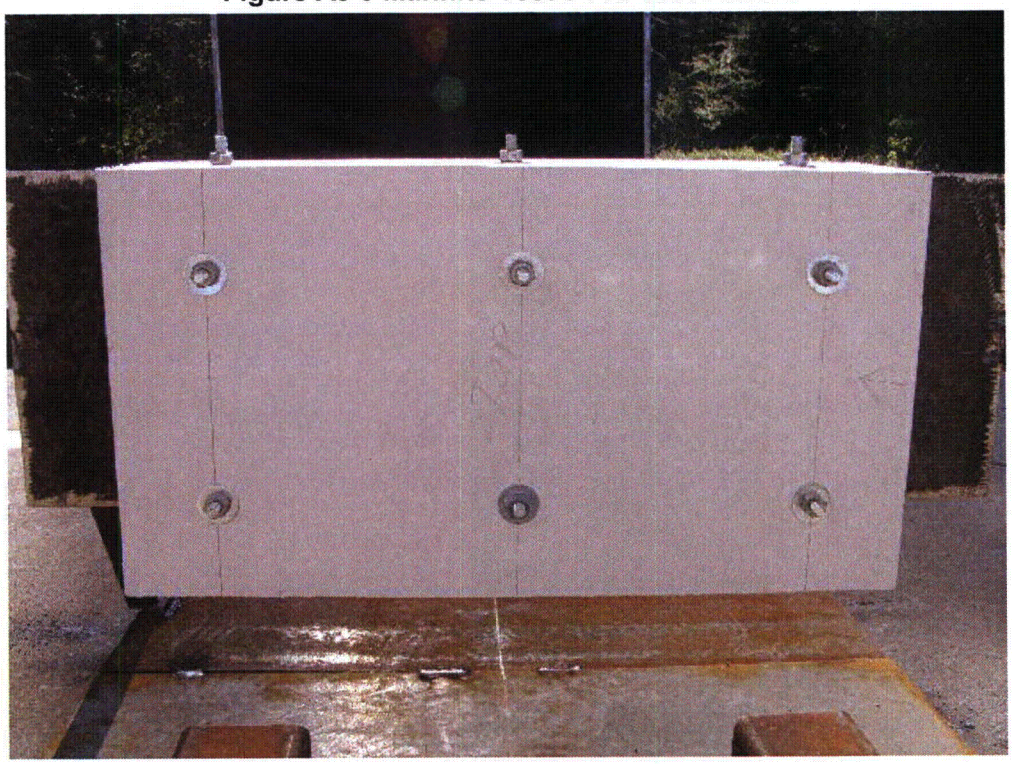


**Figure A5-10 Marinite Test 5 Post-Test Picture**

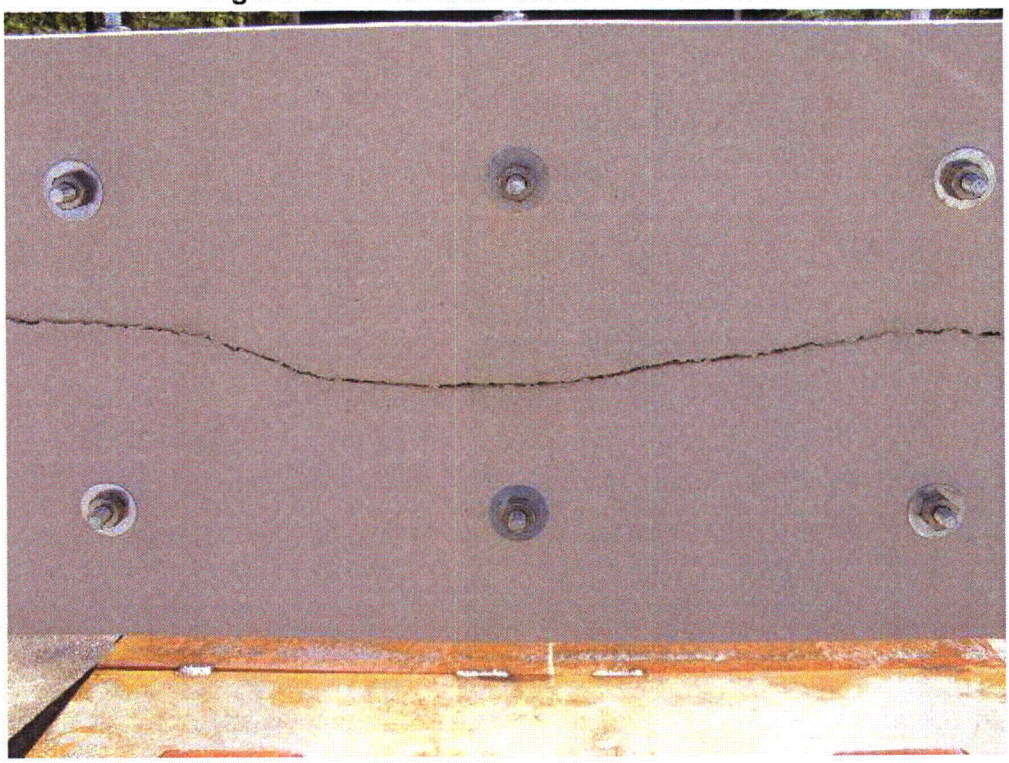


**Figure A5-11 Marinite Test 5 Post-Test Picture**

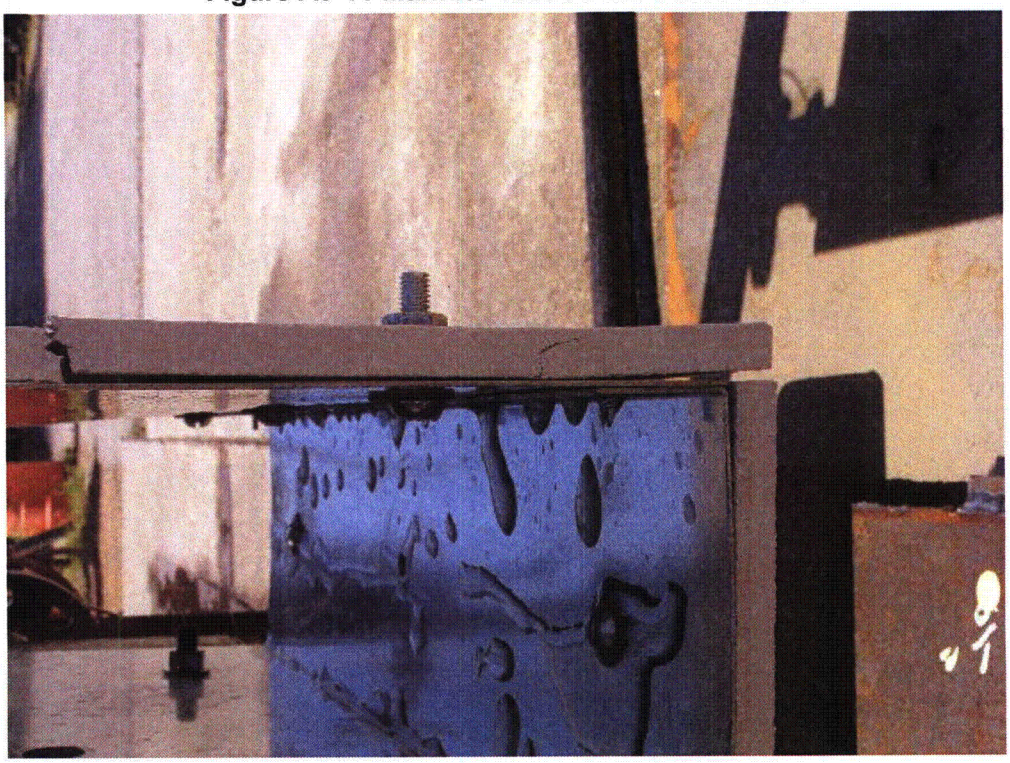


**Figure A5-12 Marinite Test 6 Pre-Test Picture**

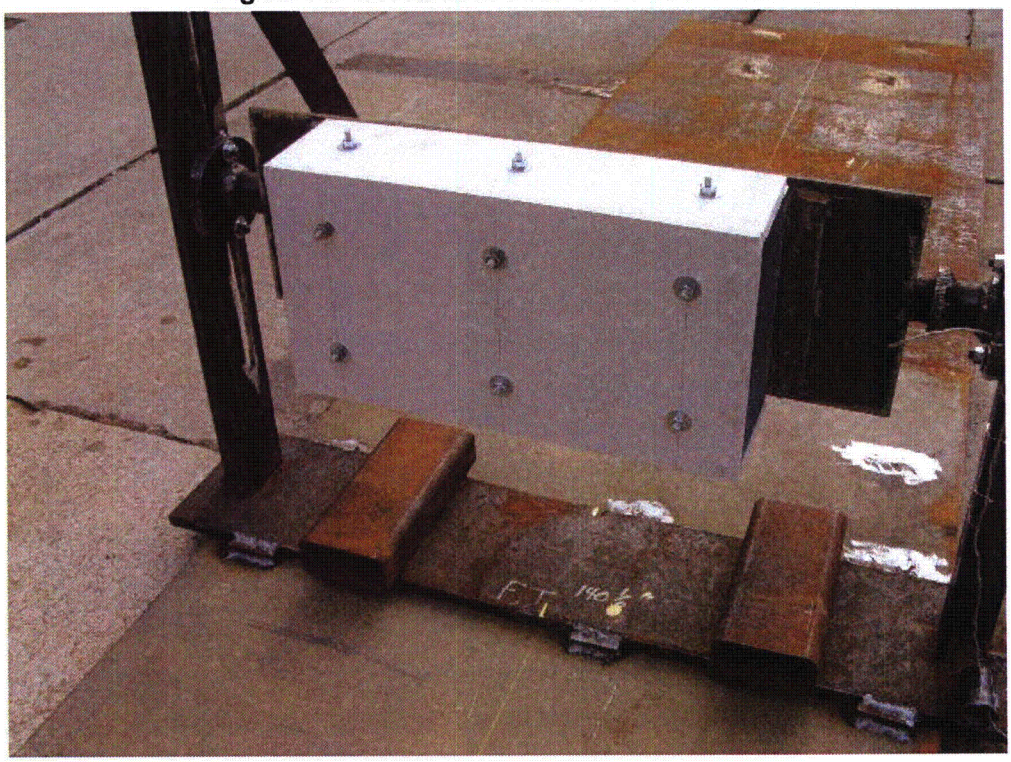


**Figure A5-13 Marinite Test 6 Post-Test Picture**

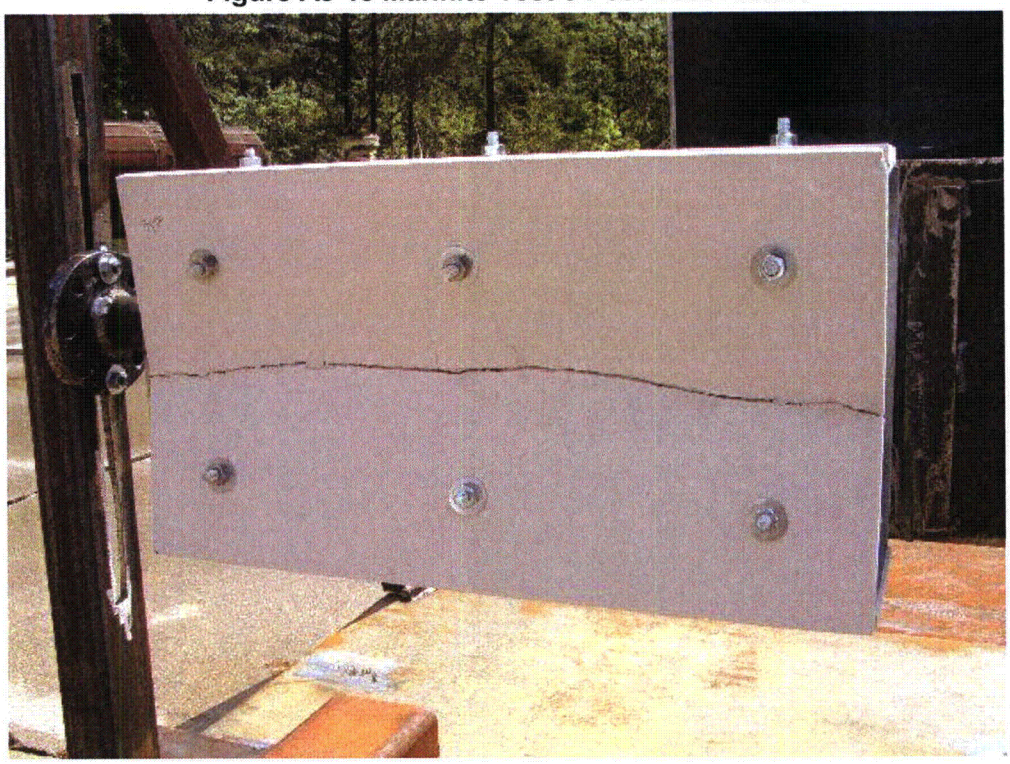


**Figure A5-14 Marinite Test 6 Post-Test Picture**

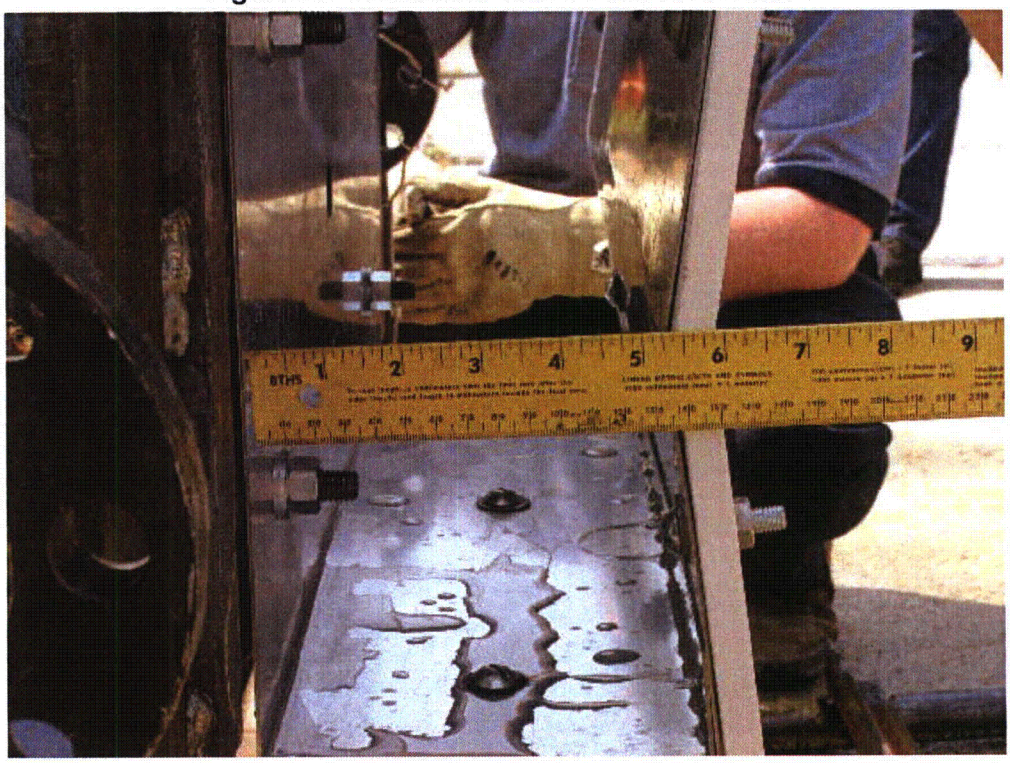


**Figure A5-15 Marinite Test 6 Post-Test Picture**

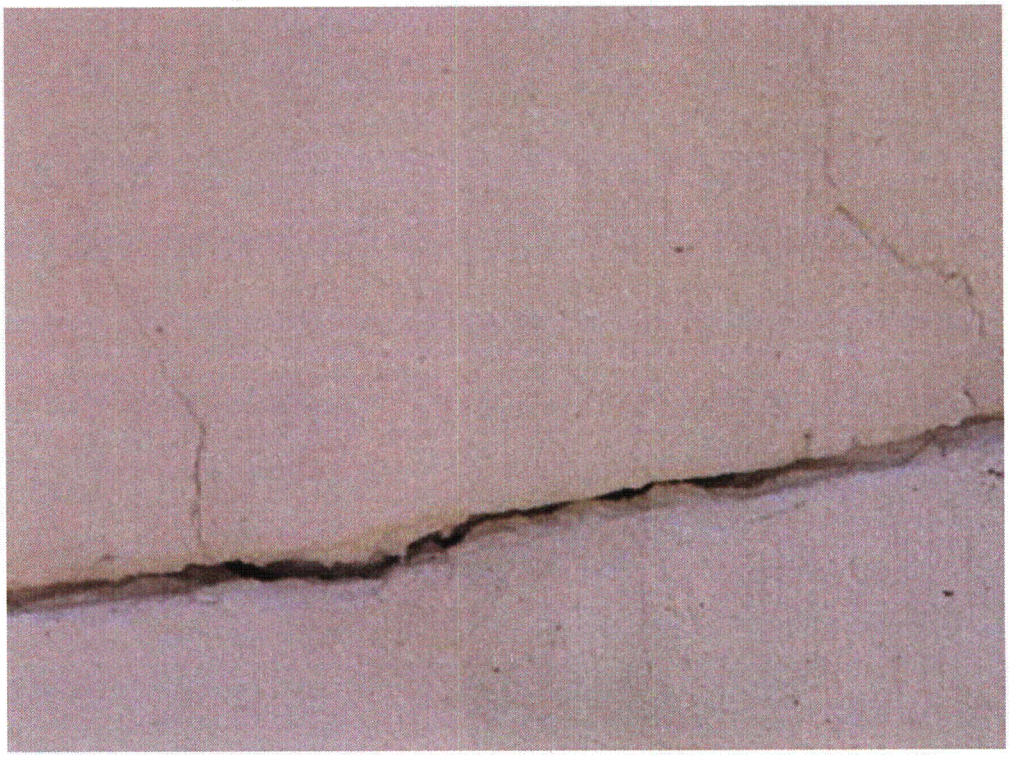


**Figure A5-16 Marinite Test 7 Pre-Test Picture**

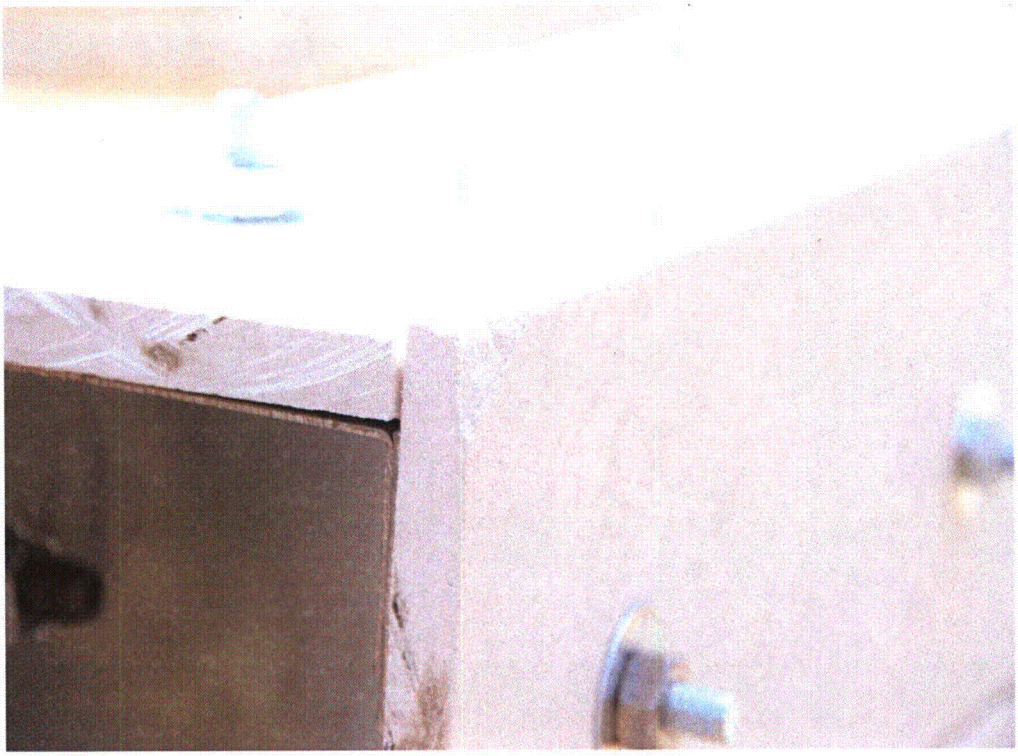


**Figure A5-17 Marinite Test 7 Post-Test Picture**

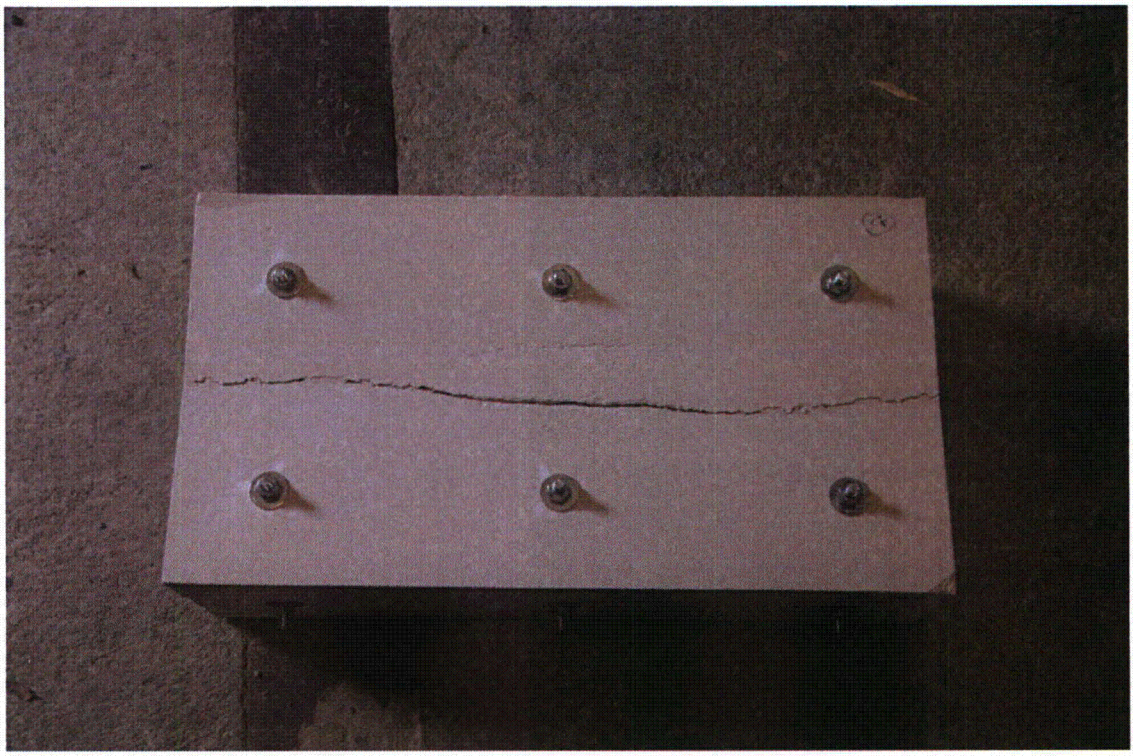


**Figure A5-18 Marinite Test 7 Post-Test Picture**

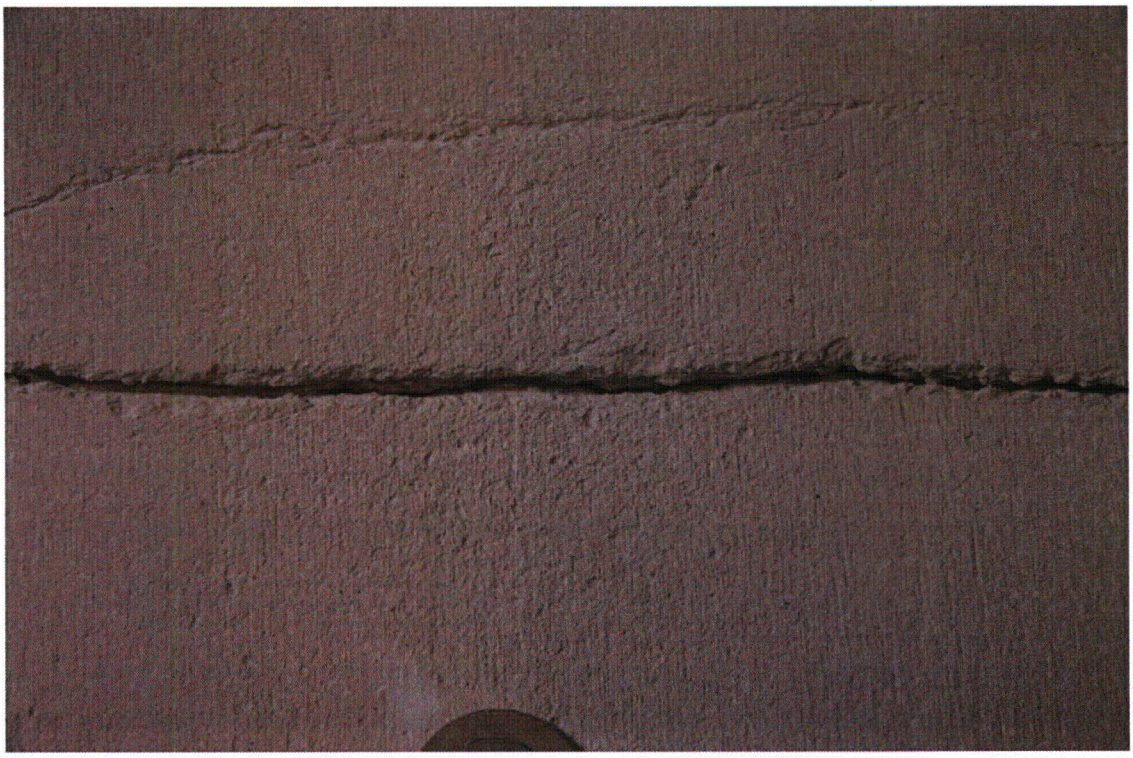


**Figure A5-19 Marinite Test 8 Pre-Test Picture**

**Figure A5-20 Marinite Test 8 Picture**

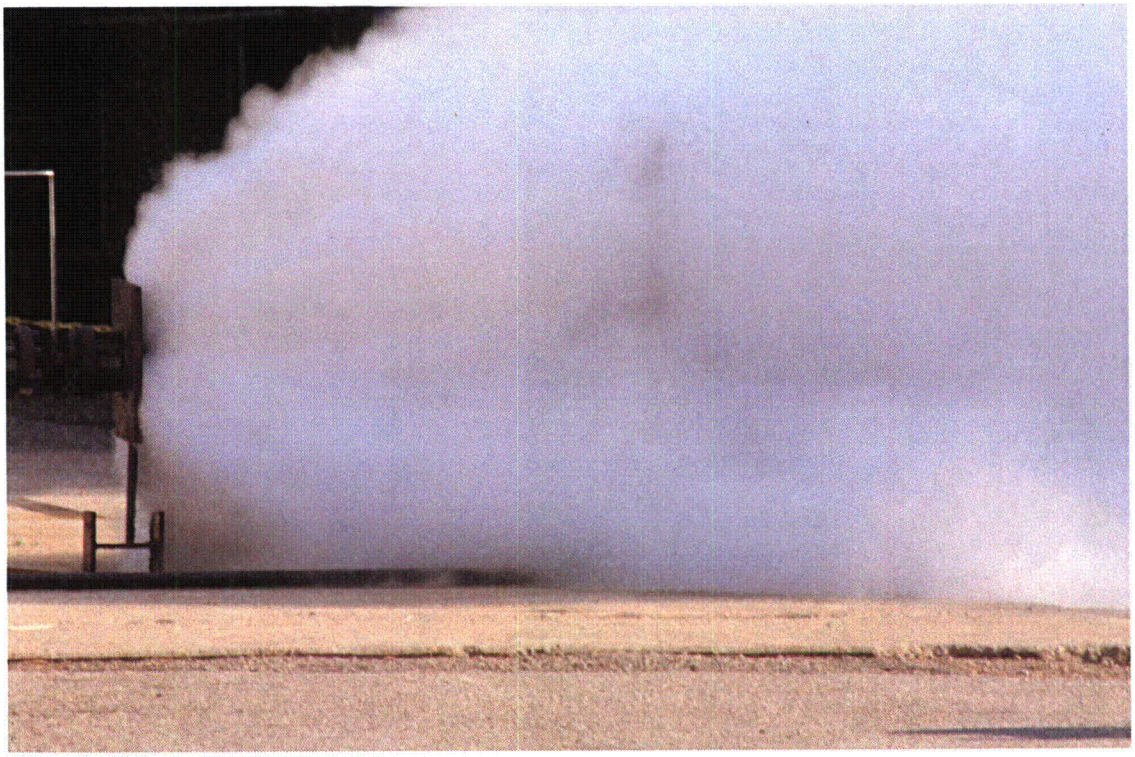


**Figure A5-21 Marinite Test 8 Post-Test Picture**

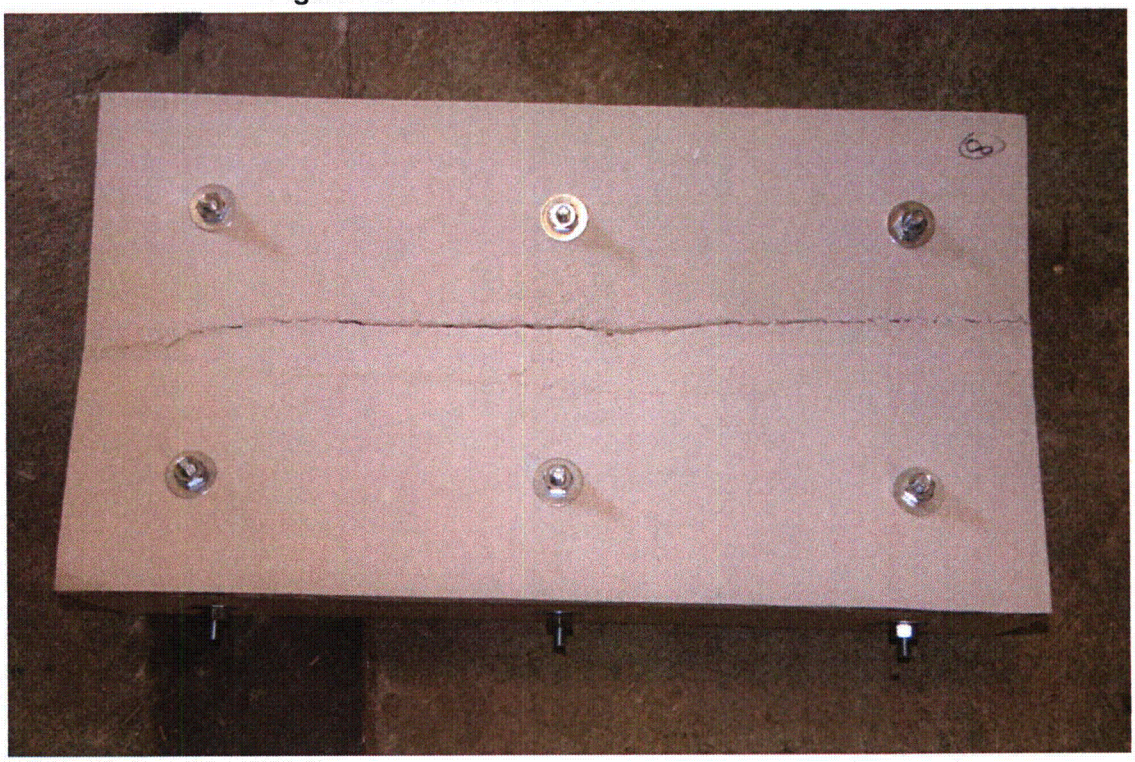


**Figure A5-22 Marinite Test 8 Post-Test Picture**

**Figure A5-23 Marinite Test 9 Pre-Test Picture**

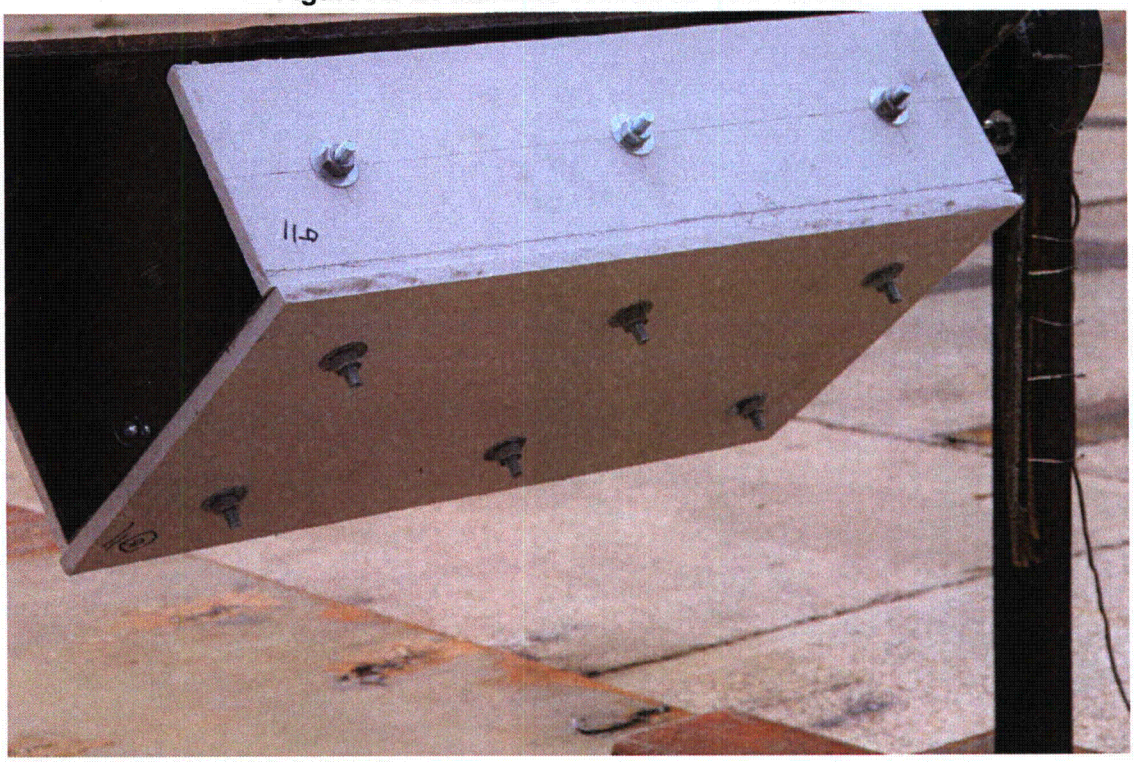


**Figure A5-24 Marinite Test 9 Post-Test Picture**

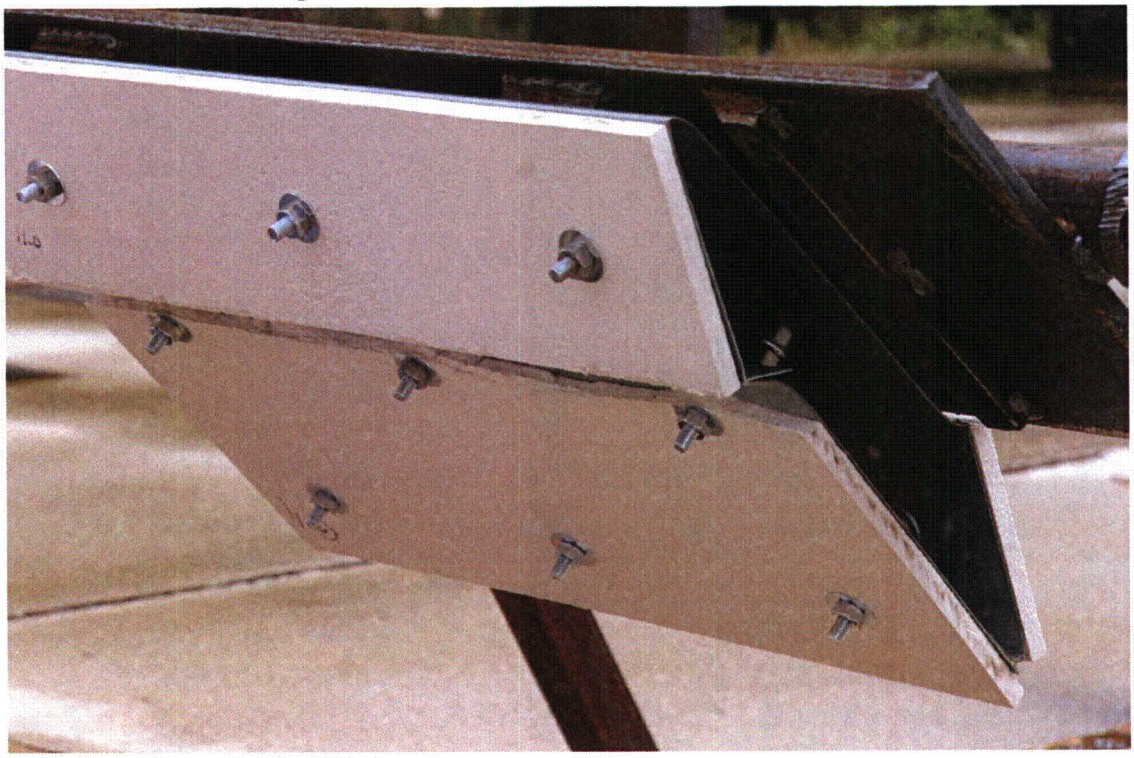


**Figure A5-25 Marinite Test 9 Post-Test Picture**

**Figure A5-26 Marinite Test 10 Pre-Test Picture**

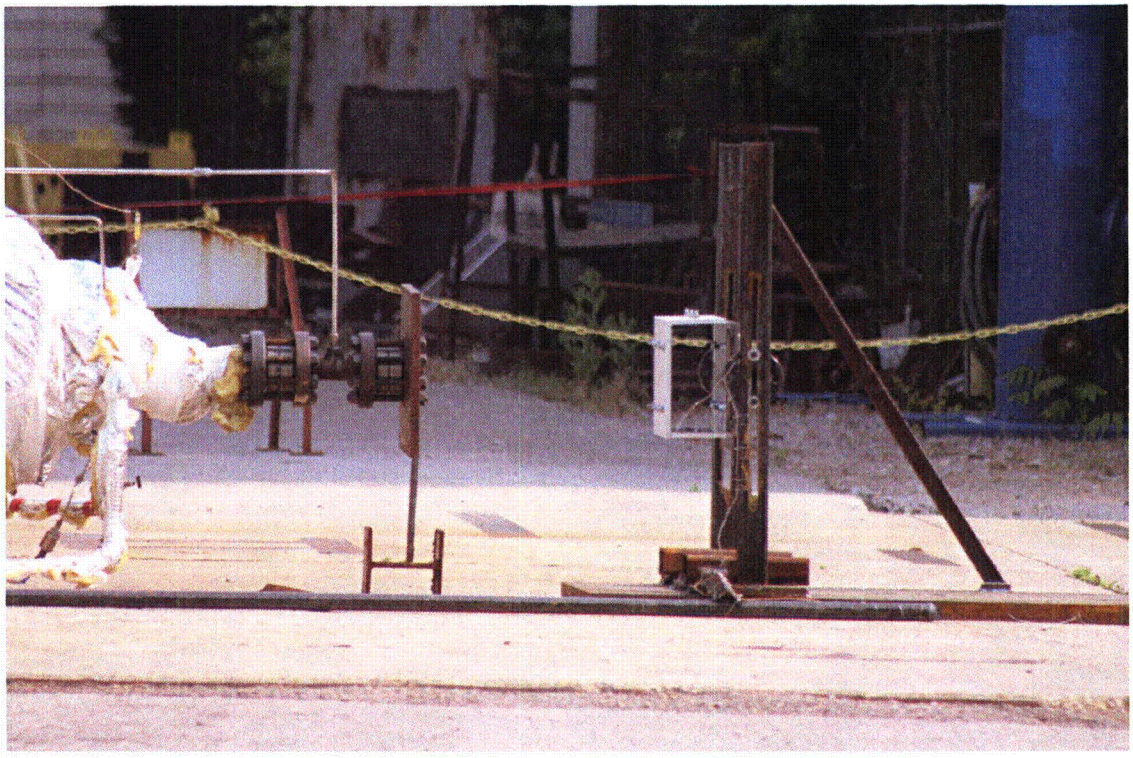


**Figure A5-27 Marinite Test 10 Post-Test Picture**

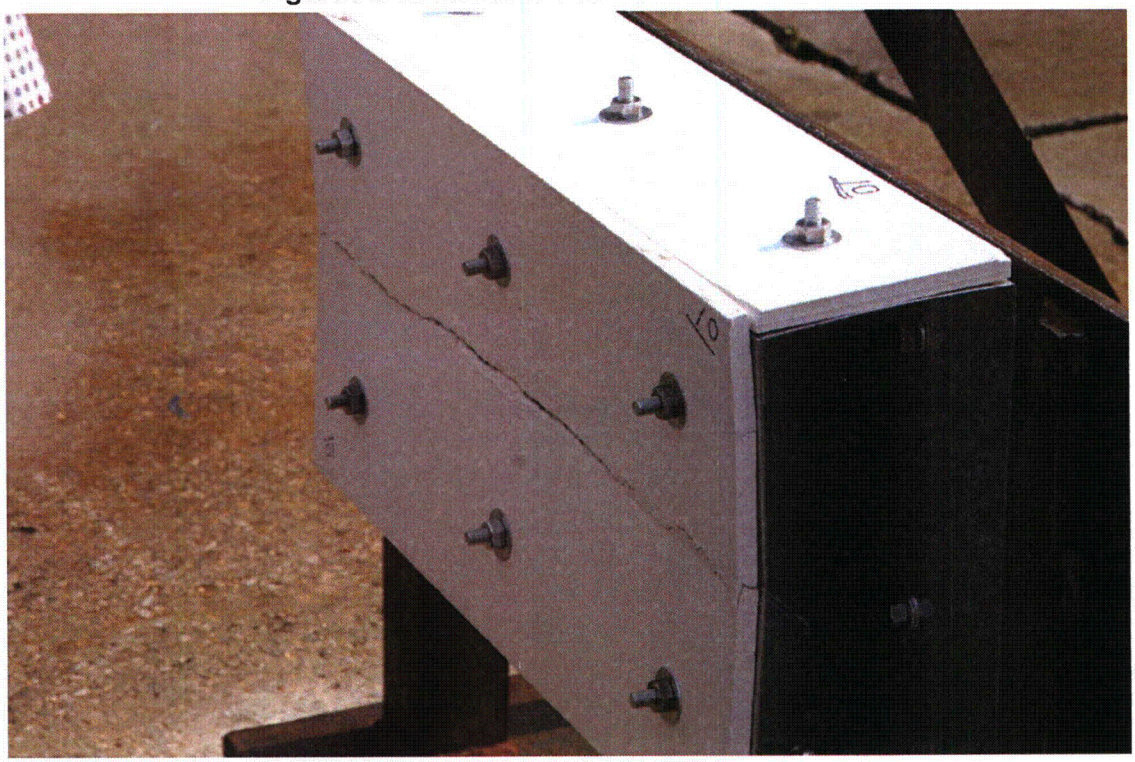


**Figure A5-28 Marinite Test 10 Post-Test Picture**

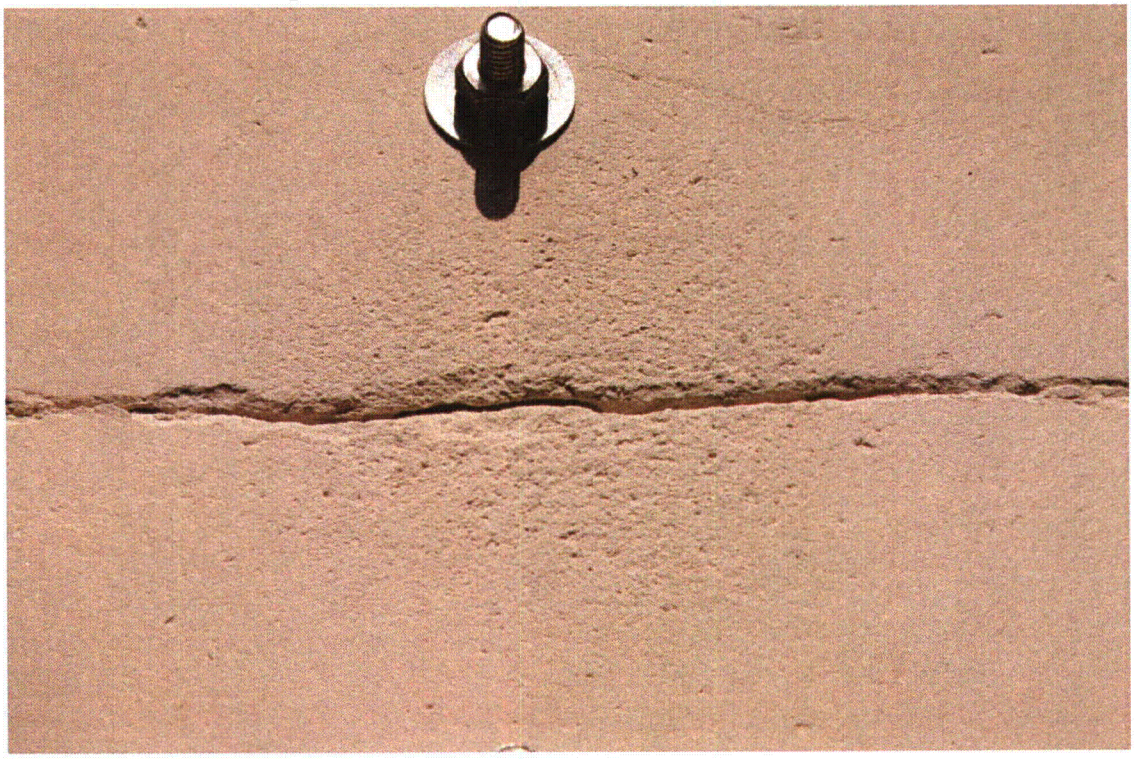


**Figure A5-29 Marinite Test 11 Pre-Test Picture**

**Figure A5-30 Marinite Test 11 Post-Test Picture**

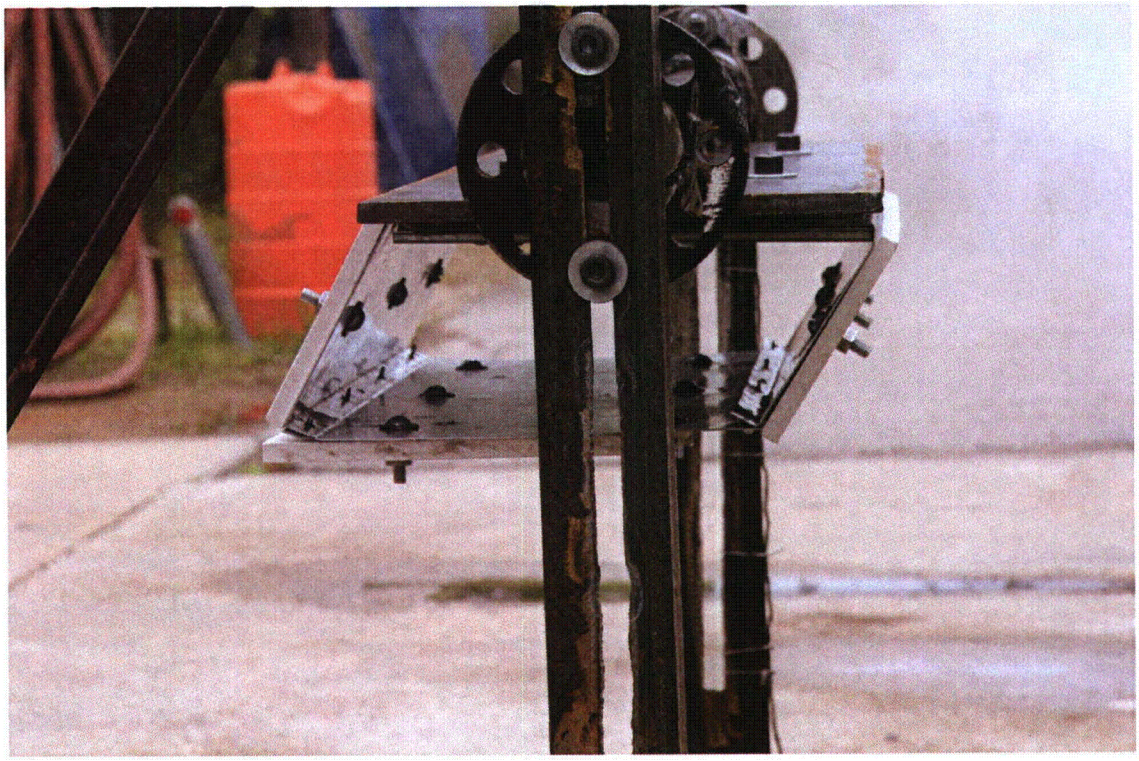


**Figure A5-31 Marinite Test 11 Post-Test Picture**

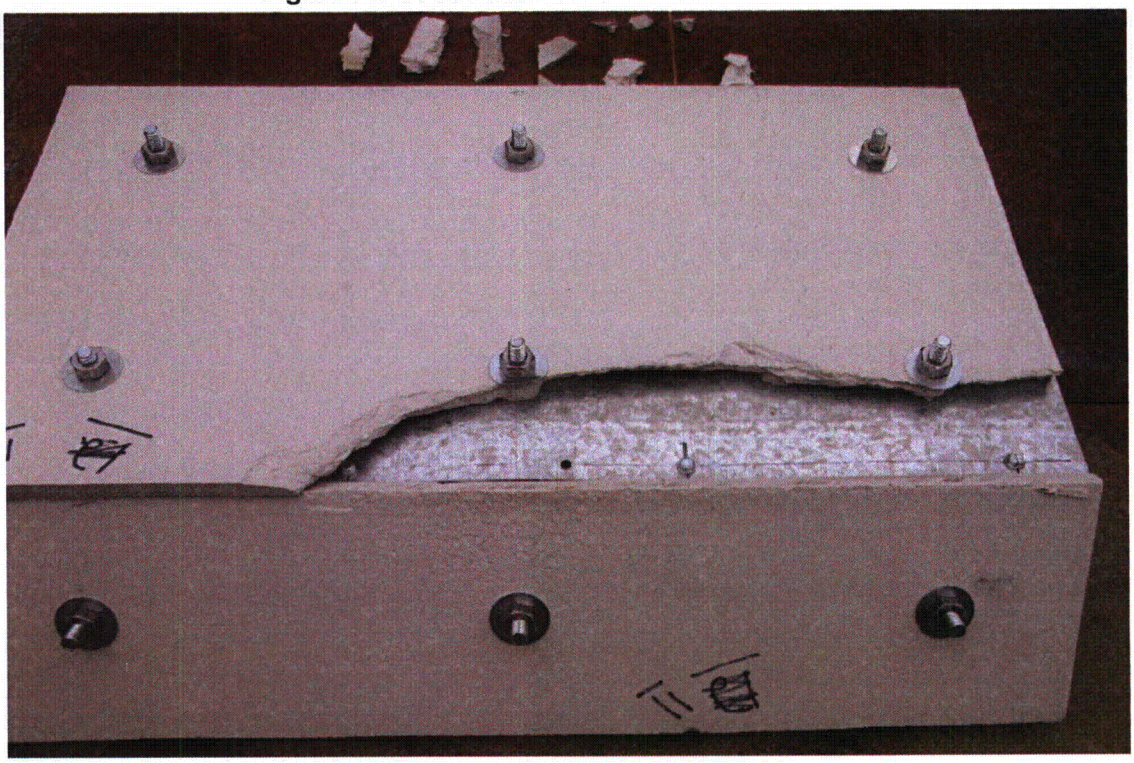


**Figure A5-32 Marinite Test 11 Post-Test Picture**

**Figure A5-33 Marinite Test 12 Pre-Test Picture**

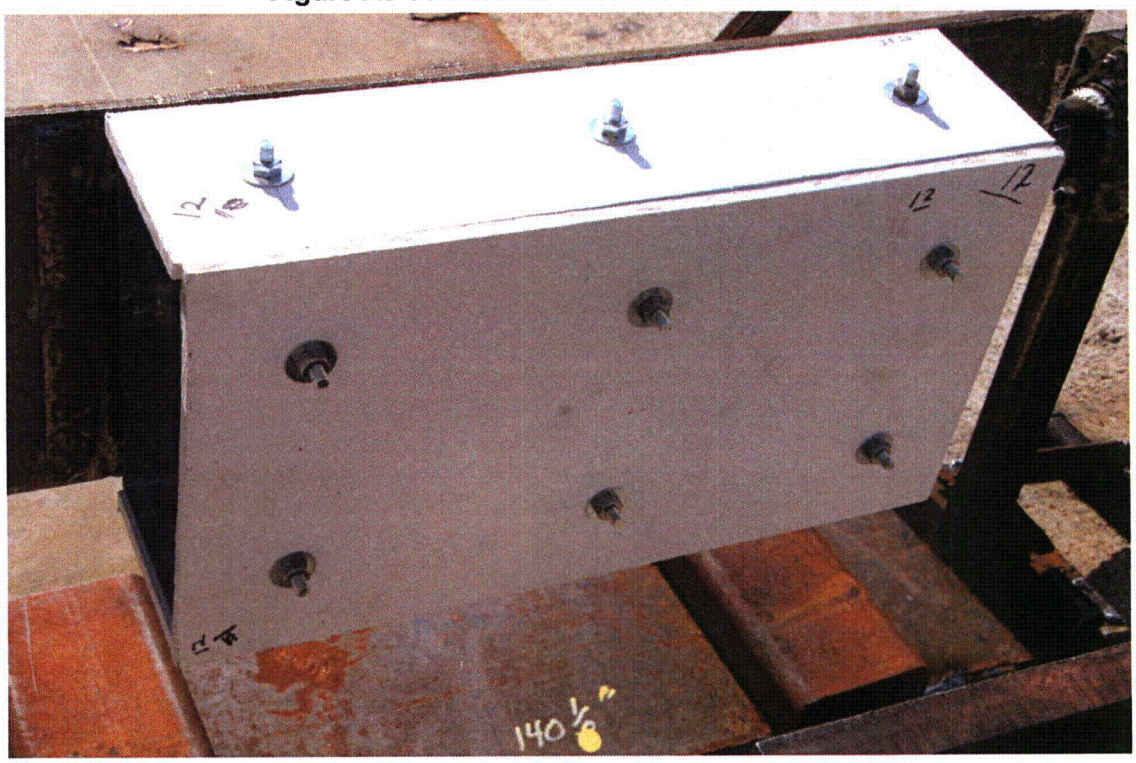



**Figure A5-34 Marinite Test 12 Post-Test Picture**

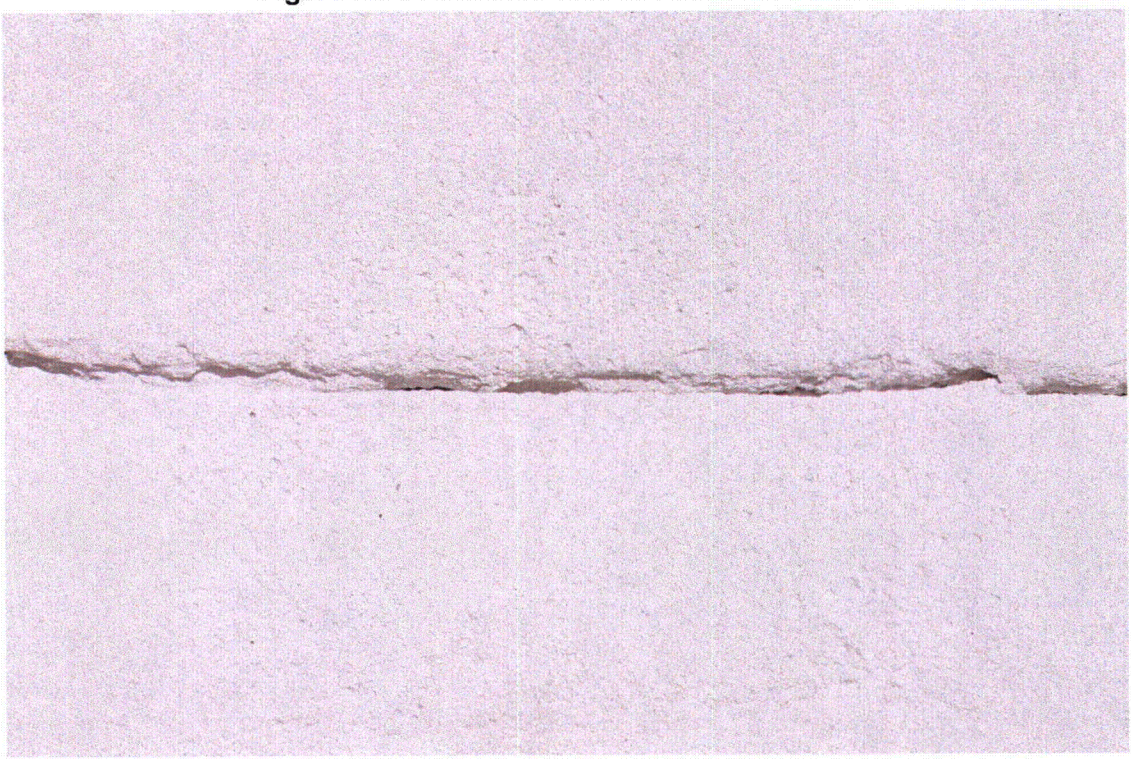


**Figure A5-35 Marinite Test 12 Post-Test Picture**

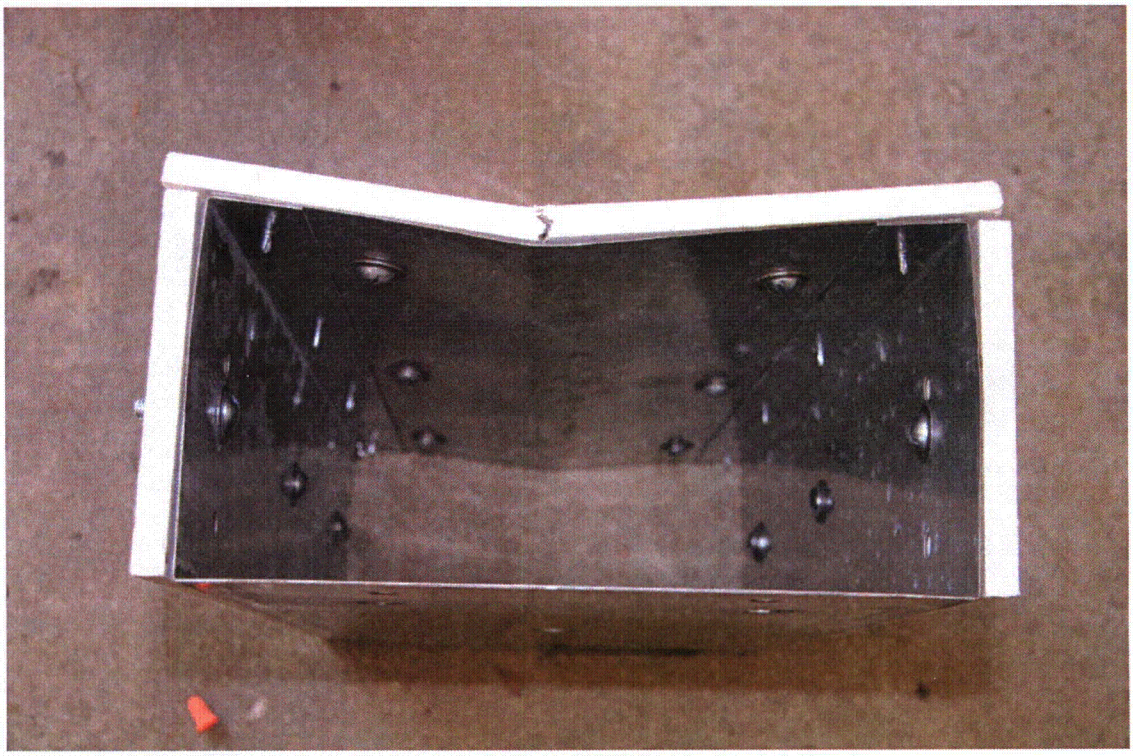


**Figure A5-36 Marinite Test 13 Pre-Test Picture**

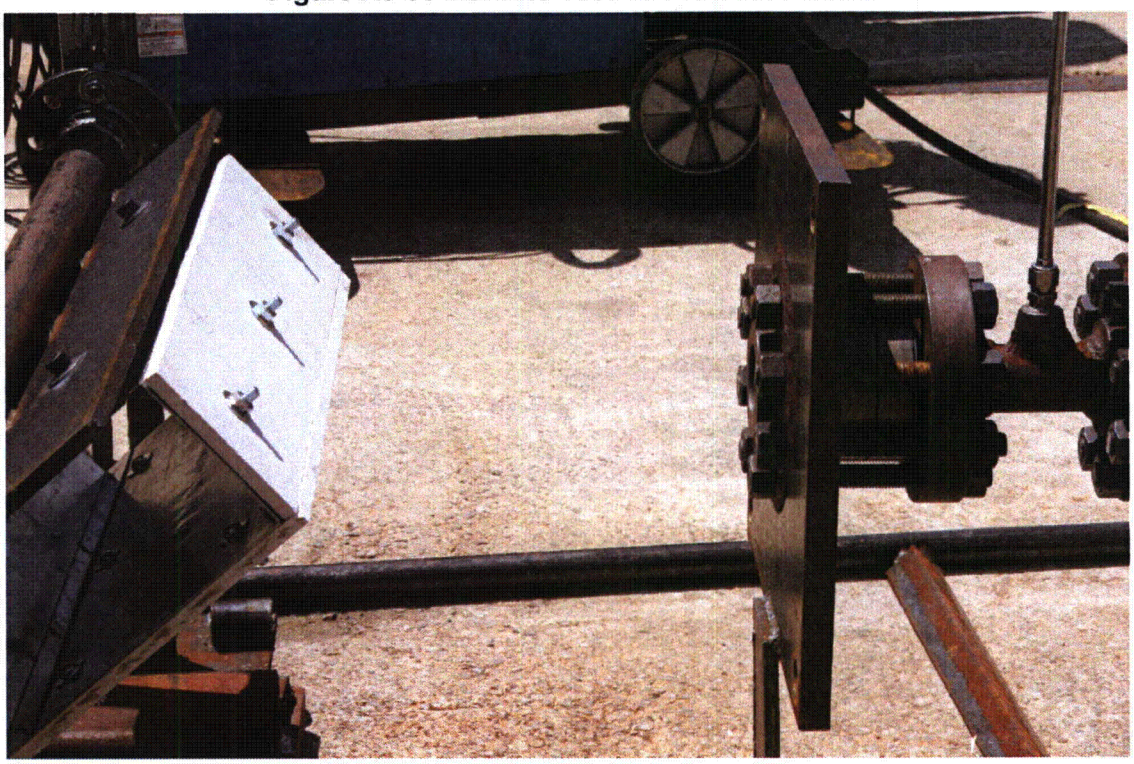


**Figure A5-37 Marinite Test 13 Post-Test Picture**

**Figure A5-38 Marinite Test 13 Post-Test Picture**

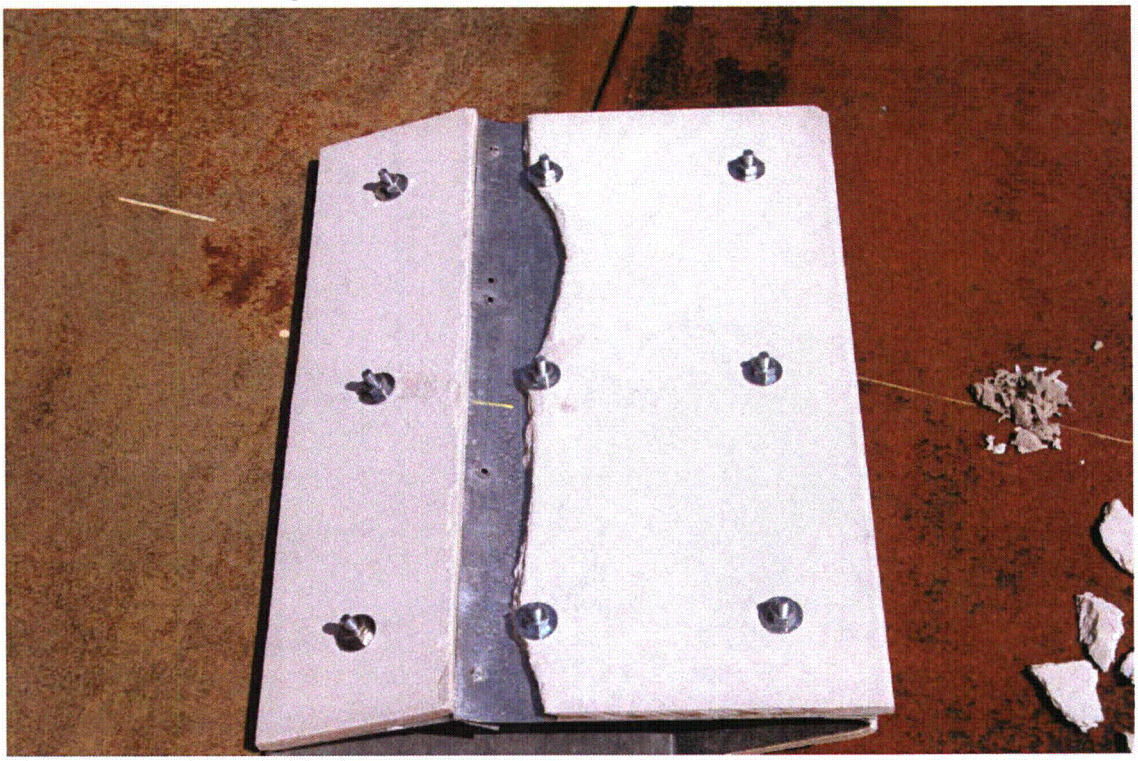


**Figure A5-39 Marinite Test 13 Post-Test Picture**

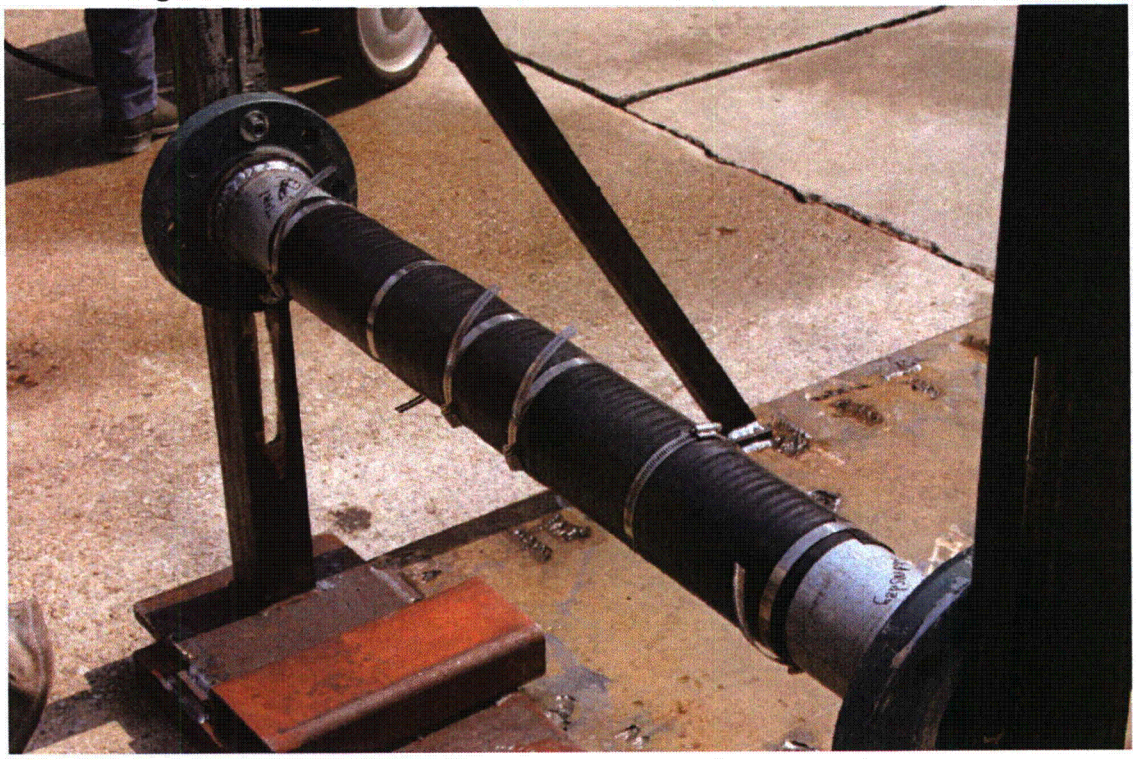



**Figure A5-40 Scotch 77 Fire Retardant Tape Test 1 Pre-Test Picture**