

TEST OBSERVATION SUMMARY FOR JET IMPINGEMENT TESTING OF NON-METALLIC INSULATION IN SUPPORT OF THE PRESUBMITTAL PHASE FOR AP1000
TOPICAL REPORT WCAP-17938

Test observations:

NRC staff traveled to National Technical Systems (NTS) Huntsville, Alabama, formerly Wyle Laboratories to witness jet impingement testing of neutron shield blocks to be installed in the AP1000 design. Staff walked the facility down before the test, witnessed a test of the blocks with a cover plate, and reviewed the post-test effects on the plate and blocks.

- Test fixture appeared prototypic and representative of in plant configuration as far as the blocks, plate, and plate supports were concerned. Restrictions on the blocks (top/bottom/rear/sides) appeared to be representative in that they restricted motion, but not prototypic, as the plant configuration would have other structures surrounding the blocks. A justification for the conservatism of the test fixture compared to the as built plant configuration should be included in the report.

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- The report should include the results of both tests (including the second that NRC staff did not witness) and incorporate a detailed list of the conservatisms that were not accounted for in the testing but would be present in the plant.

Enclosure 1