

Appendix H

<p style="text-align: center;">NUCLEAR WASTE MANAGEMENT PROCEDURE</p> <p>Sandia National Laboratories</p>	<h2 style="margin: 0;">Validation Document Criteria</h2>	<p>Form Number: NP 19-1-7</p> <p>Page 1 of 1</p>																																																																											
<p>1. Software Name: _____</p> <p>2. Software Version: _____</p> <p>3. Document Version: _____</p> <p>4. ERMS #: _____</p> <p>Prior to sign-off of the VD, all items shall be appropriately addressed by the code sponsor so that "Yes" or "N/A" may be checked. Include this form as part of the VD.</p> <p>5. Is the following information included, where applicable?</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">(a) computer program and version tested</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="width: 10%;">Yes</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="width: 10%;">N/A</td> </tr> <tr> <td>(b) computer hardware and operating system used</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(c) test equipment and calibrations</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(d) date of test</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(e) tester or data recorder</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(f) simulation models used,</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(g) test problem input and output files</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(h) results and acceptability</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>(i) action taken in connection with any deviations noted</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> </table> <p>6. Test Result Validation The test results were compared to the following (check one or more, where applicable as based on code functionality):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">- hand calculations,</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="width: 10%;">Yes</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="width: 10%;">N/A</td> </tr> <tr> <td>- manual inspection,</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>- calculations using comparable proven problems,</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>- empirical data & information from confirmed published data and correlations and/or technical literature,</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>- other validated software of similar purpose,</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> <tr> <td>- other independent software of similar purpose.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Yes</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>N/A</td> </tr> </table> <p>7. Test Documentation Acceptability Do the tests meet the acceptance criteria identified in the approved VVP? <input type="checkbox"/> Yes</p> <p>8. Test Documentation Repeatability Are the tests documented in sufficient detail such that they can be repeated? <input type="checkbox"/> Yes</p> <p>9. Computer File Documentation Are the test case input and output files included in the Validation Document? <input type="checkbox"/> Yes</p> <p>10. Understandability of Documentation Are the validation methods, test data, results, and conclusions documented in a form that can be understood by an independent, technically competent individual? <input type="checkbox"/> Yes</p>			(a) computer program and version tested	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(b) computer hardware and operating system used	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(c) test equipment and calibrations	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(d) date of test	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(e) tester or data recorder	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(f) simulation models used,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(g) test problem input and output files	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(h) results and acceptability	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	(i) action taken in connection with any deviations noted	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- hand calculations,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- manual inspection,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- calculations using comparable proven problems,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- empirical data & information from confirmed published data and correlations and/or technical literature,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- other validated software of similar purpose,	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A	- other independent software of similar purpose.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A
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Key for check boxes above:

Check **Yes** for each item reviewed and found acceptable

Check **N/A** for items not applicable