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Test Report for Hanford Convenience Can

S. R. Crow

Rust Federal Services Inc. Northwest, Richland, WA 99352

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Abstract: This report provides the test results for the Hanford Convenience Can System. This system consists of four nested sealed steel cans which will be used for the interim storage of plutonium oxide on the Hanford Site. Several of the Convenience Can Systems were loaded with a plutonium oxide simulant and then drop and load tested to ensure that this system would provide adequate containment. The Convenience Can System passed all tests.

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TEST REPORT
FOR
HANFORD CONVENIENCE CAN

HNF-SD-TP-TRP-002
REVISION 0

January 13, 1997

S. R. Crow

Packaging Engineering
Rust Federal Services, Inc. Northwest Operations
Richland, Washington

This report provides the test results for the Hanford Convenience Can System. This system consists of four nested sealed steel cans which will be used for the interim storage of plutonium oxide on the Hanford Site. Several of the Convenience Can Systems were loaded with a plutonium oxide simulant and then drop and load tested to ensure that this system would provide adequate containment. The Convenience Can System passed all tests.

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LIST OF FIGURES

Figure 1. Hanford Convenience Can System.

LIST OF TERMS

cm	centimeter
g/cc	grams per cubic centimeter
in.	inch
kg	kilogram

TEST REPORT FOR THE HANFORD CONVENIENCE CAN

1.0 INTRODUCTION

The Hanford Convenience Can System is to be used for the safe interim storage of plutonium oxide on the Hanford Site. The system consists of four sealed steel cans that are packaged inside each other. There is a convenience can, an inner can, a middle can, and an outer can in the system (see Figure 1).

The testing of the Hanford Convenience Can System was performed by the Hanford Engineering Test Laboratory located in the 300 Area of the Hanford Site. The objective of the tests was to show that the system adequately provides containment for the plutonium oxide during storage. The tests simulated conditions that could be encountered during storage and handling such as falling off a shelf onto the floor, falling onto each other, and stacking. All tests were performed using a plutonium oxide simulant and no radioactive materials were involved.

Figure 1. Hanford Convenience Can System

2.0 TEST METHOD AND TEST EQUIPMENT

2.1 TEST ITEM

The test item consisted of Hanford Convenience Can Systems loaded with approximately five kilograms of plutonium oxide simulant. To simulate the payload of plutonium oxide, a mixture of steel grit (80 grit), tungsten powder (26 micron), and Magnaglo¹ was used. The steel grit provided the correct density (5 g/cc), the tungsten powder added dispersability, and the Magnaglo was used as a leak detection agent.

The systems were loaded and closed in preparation for testing in the same manner as if prepared for actual use. In addition, after sealing, the convenience and inner cans were inspected with ultraviolet light to ensure that they had not been contaminated with the Magnaglo during sealing.

2.2 DATA

2.2.1 Tests

The drop tests consisted of dropping loaded Convenience Can Systems onto either a hard unyielding surface or onto each other. Complete loaded systems were dropped three times onto a corner and three times horizontally from a height of 213 cm (84 in.) onto a hard unyielding surface. This was to simulate a drop from high storage position onto the floor. In addition, a loaded can with its corner edge down was dropped onto another loaded container from a height of 61 cm (24 in.). This drop was performed once onto the top and once onto the side of the stationary can. A test was also performed to see the effect of dropping just the two inner cans loaded with simulant onto a corner from a height of 60 inches. This test simulated a drop of the cans during handling before the middle and outer cans have been installed.

The compression test consisted of applying a compressive load equivalent to six times the weight of the package to the test article. This load was placed on top of a loaded Hanford Convenience Can System and held for 24 hours. This was to simulate stacking of the cans which can occur during storage.

2.2.2 Acceptance Criteria

The acceptance criteria for the tests was that no trace of the simulated payload could be detected on the outside of the outer can. A visual inspection, which included the use of ultraviolet light to check for the presence of Magnaglo, was performed to ensure that the seal of the inner can was not broken. Failure of the tests would have resulted if the simulated payload or Magnaglo were detected in any location outside of the outer can. The post test inspection included the following steps:

¹ Magnaglo is a trademark of Magnaflux Corporation

1. The drop area and outer can were checked.
2. The outer can was opened and the middle can was checked.
3. The middle can was opened and the inner can was checked.
4. The inner can was opened and the convenience can was checked.

A visual inspection was made of each container and any deflection of the cans or overall change in the condition of the Hanford Convenience Can System was measured and recorded. Failure of the convenience can (inner most can) did not affect the acceptance criteria.

2.2.3 Photography

The Hanford Convenience Can System drop tests were video taped and still photos of damage were taken.

2.3 INSTRUMENTS AND EQUIPMENT

All drop tests were performed using the drop pad located in the 305 Building located in the 300 Area of the Hanford Site. Other equipment used in the testing included a crane, a calibrated laboratory scale, an ultraviolet light, photographic and video equipment, and a quick release mechanism for the drops.

3.0 TEST RESULTS

All tests passed and there were no unacceptable conditions. With the exception of the convenience cans, no simulant was detected on the outside of any cans during the inspections. The simulant that was detected on the outside of the convenience cans was smeared in locations away from the seams and appeared to be due to cross-contamination during packaging, not due to a breach of the containment. The full results of the tests are shown in the Appendix (Section 6.0) and are summarized below.

Compression Test. Six times the weight of a loaded can (33.7 kg) was applied to the top of a container in the axial direction for 24 hours. There was no sign of deformation and no Magnaglo was detected on the outside of the can.

Corner Drop Tests 1-3. Three different cans were diagonally dropped on the circumferential seam or edge from a height of 84 inches. The cans dented 0.16 to 0.64 cm (0.06 to 0.25 in.) at the point of impact. However, the cans did not open and no Magnaglo was detected on the outside of the cans.

Side Drop Tests 4-6. Three different cans were dropped on the longitudinal seam from a height of 84 inches. The cans dented 0.16 to

0.32 cm (0.06 to 0.12 in.) at the point of impact. However, the cans did not open and no Magnaglo was detected on the outside of the cans.

Can On Can Drop Test 7. A slightly underweight (4.5 kg) Convenience Can System was dropped with its corner edge down onto the lid of a loaded can from a height which gave the energy equivalent to a fully loaded (5.5 kg) can being dropped from a height of 61 cm (24 in.). The impacted can dented 0.64 cm (0.25 in.) at the point of impact. However, the can did not open and no Magnaglo was detected on the outside of the can.

Can On Can Drop Test 8. A slightly underweight (4.5 kg) Convenience Can System was dropped with its corner edge down onto the side of a loaded can from a height which gave the energy equivalent to a fully loaded (5.5 kg) can being dropped from a height of 61 cm (24 in.). The impacted can dented 3.6 cm (1.4 in.) at the point of impact. However, the can did not open and no Magnaglo was detected on the outside of the can.

Drop Test Of Inner Two Cans. One set of two inner cans was dropped diagonally on a circumferential seam or edge from a height of 152 cm (60 in.). The can dented 0.64 cm (0.25 in.) at the point of impact. However, the can did not open and no Magnaglo was detected on the outside of the can.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the acceptance criteria provided, the Hanford Convenience Can System adequately provides containment for the plutonium oxide during conditions that may be encountered during storage and handling. It should be noted that during testing extreme care was taken to ensure that the cans were not cross contaminated. This same type of care should be used when packaging the actual payload.

5.0 DISPOSITION OF TEST ITEM

Testing of the Hanford Convenience Can System is complete. The video tapes and still photos have been forwarded to the cognizant engineer at the Plutonium Finishing Plant. The test items will be disposed of in accordance with disposal procedures used at the Engineering Test Laboratory.

6.0 APPENDIX

6.1 COMPRESSION TEST PROCEDURE

6.1.1 Pre-Test Activities

The test engineer shall complete a pre-test checklist provided in Figure 6-1.

Figure 6-1. Pre-Test Procedure for Starting
Test Article Compression Test.

Pre-Test Checklist for Starting Test Article Compression Test.	
<ol style="list-style-type: none"> 1. Confirm arrival of Hanford convenience cans (6 items). 2. Hold a pre-test meeting with all personnel involved with this test. The Test Engineer shall review the test procedures and discuss potential hazards involved with this test. 3. Identify safety zones to test personnel and observers. 4. Remove dirt and debris from Test Area. 5. Set up photographic equipment and verify operation. 6. Visually inspect Hanford convenience cans, six items, for any damage. Note any marks which could mistakenly be listed as damage after test. <p> <u>NONE</u> <hr/> <hr/> <hr/> <hr/> </p>	
Test Engineer: <u><i>Paul [Signature]</i></u>	Date: <u>12/19/94</u>
QA Representative: <u><i>Luan Hooley</i></u>	Date: <u>12/19/94</u>

6.1.2 Compression Test

The compression test is applied at the top of the container in the axial direction. The container must be subjected, for a period of 24 hours, to a compressive load applied uniformly to the top and bottom of the container in the position in which the container would normally be transported. The compressive load must be the equivalent of ~~five~~ ^{SIX} times the weight of the container.

6.1.2.1. Perform the pre-test procedure and complete the checklist for the compression test provided in Figure 6-1 and Figure 6-2.

6.1.2.2. Verify cameras are ready.

6.1.2.3. Verify the test article is in a stable position within the test area.

6.1.2.4. Authorize the testing personnel to begin test and start the 24 hour clock. Time: 13-15 12-19-96

6.1.2.5. Note the time when weight is removed from test article.
Time: 13-15 12-20-96

6.1.2.6. Following the 24 hour time period, the test engineer, cognizant engineer, and QA representative shall complete the post-test checklist in Figure 6-3.

Figure 6-2. Checklist for Compression Test.

Checklist for Starting Test Article Compression Test.	
1. Examine outside of the container to be tested, weight containers, and the test area for any traces of Magnaglow with an ultraviolet light. Response? Yes _____ No ☒ If yes clean until no response. Comments: _____	
2. Weigh test article on scale. Weight: <u>5619 GRAMS</u> Scale inspection date: <u>DUR 3/12/97 (347-06-01-004)</u> Exterior dimensions of test article. <u>METTLER PK3P</u> <u>HT 9/32 in DIA 4 7/32 in</u>	
3. Weigh the containers or weight to be placed on the test article. Weight #1: _____ Weight #2: _____ Weight #3: _____ Weight #4: _____ Weight #5: _____	
4. Ensure the weight placed on the test article is five times its weight. <u>Gx = 33714 GRAMS</u> <u>SIX 12/20/96</u>	
5. Set up testing condition with weight on the test article.	
6. Post signs indicating testing in progress.	
7. Verify all test preparations for the test are complete. Comments: _____ _____ _____	
Checklist for Compression Test has been completed.	
Test Engineer: <u>Gerry W. Olm</u>	Date: <u>12-19-96</u>
QA Representative: <u>Elvan Hoodley</u>	Date: <u>12/19/96</u>

Figure 6-3. Post-Test Checklist for Compression Test.

Post-Test Checklist for Compression Test.	
<p>1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light.</p> <p>Response? Yes _____ No ☒</p> <p>Comments: _____</p>	
<p>2. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>NONE</u></p> <p>_____</p> <p>_____</p>	
<p>3. If there are no signs of deformation then it can be assumed the Hanford convenience can system passed the compression test requirements without the need for an internal inspection.</p> <p>Response? ☒ Agree ☐ Disagree</p>	
<p>4. If the answer for step three is disagree, then the container shall be taken apart one can at a time to perform a Magnaglow inspection for each layer by following steps 5 through 7.</p>	
<p>5. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No _____</p> <p>Comments/Measurements: _____</p> <p>_____</p> <p>_____</p>	
<p>6. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No _____</p> <p>Comments/Measurements: _____</p> <p>_____</p> <p>_____</p>	
<p>7. The container passed the Compression Test. (Section 3.3)</p> <p>☒ Yes ☐ No</p>	
<p>Checklist for Compression Test has been completed.</p> <p>Test Engineer: <u>Gray W. Oliver</u> Date: <u>12-20-96</u></p> <p>QA Representative: <u>LeVan Hooley</u> Date: <u>12-20-96</u></p>	

**Figure 6-4. Pre-Test Checklist for Starting
Test Article Drop Tests.**

Pre-Test Checklist for Starting Test Article Drop Tests	
<ol style="list-style-type: none"> 1. Confirm arrival of Hanford convenience cans (10 items). 2. Hold a pre-test meeting with all personnel involved with this test. The Test Engineer shall review the test procedures and discuss potential hazards involved with this test. 3. Identify safety zones to test personnel and observers. 4. Remove dirt and debris from Test Pad. 5. Set up photographic equipment and verify operation. 6. Inspect and verify all lifting equipment is currently certified. 7. Visually inspect Hanford convenience cans, ten items, for any damage. Note any marks which could mistakenly be listed as damage after drop. <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	
<p>The Pre-Test Checklist has been completed.</p> <p>Test Engineer: <u><i>James L. Oliver</i></u> Date: <u>12-19-96</u></p> <p>QA Representative: <u><i>Liam Moody</i></u> Date: <u>12/19/96</u></p>	

6.2.2 Drop Test #1

Drop number 1 is the corner drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.2.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-5).

6.2.2.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.2.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.2.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.2.5 Verify cameras are operating.

6.2.2.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.2.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.2.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-6).

Figure 6-5. Pre-Drop Checklist for Drop Test No. 1.

Pre-Drop Checklist for Drop No. 1	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes _____ No <u>✓</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5623g</u></p> <p>Scale inspection date: <u>12/12/96</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 1 has been completed.</p> <p>Test Engineer: <u>Paul M. [Signature]</u> Date: <u>12/19/96</u></p> <p>QA Representative: <u>LeVan Moody</u> Date: <u>12/19/96</u></p>	

Figure 6-6. Post-Test Checklist for Drop Test No. 1.

Post-Test Checklist for Drop No. 1	
1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light. Response? Yes _____ No <u>X</u> Comments: _____	
2. Record damaged areas with the camera.	
3. Examine the exterior of the container for signs of deformation. Comments/Measurements: <u>APPROX 1/4" DENT AT CIRCUMFERENTIAL EDGE</u> _____ _____	
4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow. Response? Yes _____ No <u>✓</u> Comments/Measurements: <u>APPROX 1/4" DENT AT CIRCUMFERENTIAL EDGE</u> _____	
5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow. Response? Yes _____ No <u>✓</u> Comments/Measurements: <u>APPROX 1/4" DENT AT CIRCUMFERENTIAL EDGE</u> _____	
6. The container passed the Drop Test. (Section 3.3) Yes <u>(X)</u> No _____	
Post-Drop Checklist for Drop No. 1 has been completed. Test Engineer: <u>John V. Olson</u> Date: <u>12-19-96</u> QA Representative: <u>LeVern Hoadley</u> Date: <u>12/19/96</u>	

6.2.3 Drop Test #2

Drop number 2 is a corner drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.3.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-7).

6.2.3.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.3.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.3.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.3.5 Verify cameras are operating.

6.2.3.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.3.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.3.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-8).

Figure 6-7. Pre-Drop Checklist for Drop Test No. 2.

Pre-Drop Checklist for Drop No. 2	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5434 g</u></p> <p>Scale inspection date: <u>12/12/96</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 2 has been completed.</p> <p>Test Engineer: <u>Jerry W. Oliver</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>Ellen Gooday</u> Date: <u>12/19/96</u></p>	

Figure 6-8. Post-Test Checklist for Drop Test No. 2.

Post-Test Checklist for Drop No. 2	
<p>1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light.</p> <p>Response? Yes _____ No ☒</p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>APPROX 1/4 DENT AT</u> <u>CIRCUMFERENTIAL EDGE</u></p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/4 DENT AT</u> <u>CIRCUMFERENTIAL EDGE</u></p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/4 DENT AT</u> <u>CIRCUMFERENTIAL EDGE</u></p>	
<p>6. The container passed the Drop Test. (Section 3.3)</p> <p>☒ Yes ☐ No</p>	
<p>Post-Drop Checklist for Drop No. 2 has been completed.</p> <p>Test Engineer: <u>Gary W. Oliver</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>LeVan Hoodley</u> Date: <u>12/19/96</u></p>	

6.2.4 Drop Test #3

Drop number 3 is a corner drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.4.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-9).

6.2.4.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.4.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.4.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.4.5 Verify cameras are operating.

6.2.4.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.4.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.4.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-10).

Figure 6-9. Pre-Drop Checklist for Drop Test No. 3.

Pre-Drop Checklist for Drop No. 3	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes <u>NO</u> No <u>X</u> <small>12/14/96</small> If Yes, clean until no response. Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5622 g</u> Scale inspection date: <u>12/12/96</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target diagonally on the circumferential seam or edge. The convenience can system should be oriented so that the line of impact on the circumferential seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____ _____ _____ _____</p>	
<p>Pre-Drop Checklist for Drop No. 3 has been completed.</p> <p>Test Engineer: <u>Jerry W. Oliver</u> Date: <u>12-19-96</u> QA Representative: <u>LeVan Hoodley</u> Date: <u>12-19-96</u></p>	

Figure 6-10. Post-Test Checklist for Drop Test No. 3.

Post-Test Checklist for Drop No. 3	
1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light. Response? Yes _____ No ☒ Comments: _____	
2. Record damaged areas with the camera.	
3. Examine the exterior of the container for signs of deformation. Comments/Measurements: _____ APPROX 7/8 DENT AT CIRCUMFERENTIAL EDGE _____ _____	
4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow. Response? Yes _____ No ☒ Comments/Measurements: _____ APPROX 5/8 DENT AT CIRCUMFERENTIAL EDGE _____ _____	
5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow. Response? Yes _____ No ☒ Comments/Measurements: _____ APPROX 5/8 DENT AT CIRCUMFERENTIAL EDGE _____ _____	
6. The container passed the Drop Test. (Section 3.3) Yes ☒ No _____	
Post-Drop Checklist for Drop No. 3 has been completed. Test Engineer: <u>Joseph W. Olmick</u> Date: <u>12-19-96</u> QA Representative: <u>LuAnn Hooley</u> Date: <u>12-19-96</u>	

6.2.5 Drop Test #4

Drop number 4 is a side drop. The package must strike the target on the weakest part not tested by the first drop, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.5.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-11).

6.2.5.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.5.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.5.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.5.5 Verify cameras are operating.

6.2.5.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.5.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.5.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-12).

Figure 6-11. Pre-Drop Checklist for Drop Test No. 4.

Pre-Drop Checklist for Drop No. 4	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5616 g</u></p> <p>Scale inspection date: <u>12/12/96</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target on the weakest part, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 4 has been completed.</p> <p>Test Engineer: <u>Jerry W. Olm</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>William Hoadley</u> Date: <u>12/19/96</u></p>	

Figure 6-12. Post-Test Checklist for Drop Test No. 4.

Post-Test Checklist for Drop No. 4	
<p>1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light.</p> <p>Response? Yes _____ No ☒</p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT</u> <u>ALONG LONGITUDINAL SEAM</u></p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>6. The container passed the Drop Test. (Section 3.3)</p> <p>(Yes) ☒ No _____</p>	
<p>Post-Drop Checklist for Drop No. 4 has been completed.</p> <p>Test Engineer: <u>Greg W. Quinn</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>Edwan Hoadley</u> Date: <u>12/19/96</u></p>	

6.2.6 Drop Test #5

Drop number 5 is a side drop. The package must strike the target on the weakest part not tested by the first drop, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.6.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-13).

6.2.6.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.6.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.6.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.6.5 Verify cameras are operating.

6.2.6.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.6.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.6.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-14).

Figure 6-11. Pre-Drop Checklist for Drop Test No. 5.

Pre-Drop Checklist for Drop No. 5	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes _____ No <u>✓</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5434.9</u></p> <p>Scale inspection date: <u>12/12/96</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target on the weakest part, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 5 has been completed.</p> <p>Test Engineer: <u>Greg L. Oliver</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>Elvan Hooday</u> Date: <u>12/19/96</u></p>	

Figure 6-12. Post-Test Checklist for Drop Test No. 5.

Post-Test Checklist for Drop No. 5	
<p>1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light.</p> <p>Response? Yes _____ No ☒</p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 1/8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>6. The container passed the Drop Test. (Section 3.3)</p> <p>Yes _____ No _____</p>	
<p>Post-Drop Checklist for Drop No. 5 has been completed.</p> <p>Test Engineer: <u>Joseph U. Quinn</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>L Van Hooley</u> Date: <u>12-19-96</u></p>	

6.2.7 Drop Test #6

Drop number 6 is a side drop. The package must strike the target on the weakest part not tested by the first drop, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised XXX in. (XXX cm) above the target.

6.2.7.1 Perform pre-drop test activities and complete checklist for drops (see Figure 6-4 and 6-15).

6.2.7.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.7.3 Authorize the rigging crew to lift the test article to an elevation of XXX in. (XXX cm), and verify that the test article is in the correct orientation and is stable.

6.2.7.4 Verify test article elevation using chain marker taped to package.

Elevation = 84" QA Initial LKG

Remove chain marker before drop.

6.2.7.5 Verify cameras are operating.

6.2.7.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.7.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.7.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-16).

Figure 6-11. Pre-Drop Checklist for Drop Test No. 6.

Pre-Drop Checklist for Drop No. 6	
<p>1. Examine outside of the convenience can and test pad for any traces of Magnaglow with an ultraviolet light.</p> <p>Response? Yes _____ No <u>✓</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh test article on scale.</p> <p>Weight: <u>5434.9</u></p> <p>Scale inspection date: _____</p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target on the weakest part, the longitudinal seam of the can body. The convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 6 has been completed.</p> <p>Test Engineer: <u>Jerry W. Oliver</u> Date: <u>12-10-96</u></p> <p>QA Representative: <u>Ellen Hooley</u> Date: <u>12/19/96</u></p>	

Figure 6-12. Post-Test Checklist for Drop Test No. 6.

Post-Test Checklist for Drop No. 6	
<p>1. Examine the exterior of the container and test area for evidence of Magnaglow with the ultraviolet light.</p> <p>Response? Yes _____ No ☒</p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>APPROX 8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 8" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglow.</p> <p>Response? Yes _____ No ☒</p> <p>Comments/Measurements: <u>APPROX 16" FLAT ALONG</u> <u>LONGITUDINAL SEAM</u></p>	
<p>6. The container passed the Drop Test. (Section 3.3)</p> <p>Yes _____ No _____</p>	
<p>Post-Drop Checklist for Drop No. 6 has been completed.</p> <p>Test Engineer: <u>Gary V. Chavis</u> Date: <u>12-19-96</u></p> <p>QA Representative: <u>LeVan Goodley</u> Date: <u>12/19/96</u></p>	

6.2.8 Drop Test #7

Drop number 7 is a corner drop onto the top of a loaded convenience can system. The package must strike the top of the target can body. The convenience can system to be dropped should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised 24 in. (61 cm) above the target. If the total weight of the dropped package is less than the required 5500 grams, then the drop height shall be adjusted such that a drop energy equivalent is maintained.

6.2.8.1 Perform pre-drop test activities and complete checklist for drops.

6.2.8.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.8.3 Authorize the rigging crew to lift the test article to the appropriate elevation and verify that the test article is in the correct orientation and is stable.

6.2.8.4 Verify test article elevation using chain marker taped to package.

Elevation = 30' QA Initial LKG

Remove chain marker before drop.

6.2.8.5 Verify cameras are operating.

6.2.8.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.8.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.8.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist.

Figure 6-13. Pre-Drop Checklist for Drop Test No. 7.

Pre-Drop Checklist for Drop No. 7	
<p>1. Examine outside of the target convenience can and test pad for any traces of Magnaglo with an ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u> _____ If Yes, clean until no response. Comments: _____</p>	
<p>2. Weigh dropped can on scale. <u>can #7</u></p> <p>Weight: <u>4511</u></p> <p>Scale inspection date: <u>12/12/96</u> <u>347 0601 004</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The corner of the package must strike the top of the target can body. The drop convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: <u>None</u></p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 7 has been completed.</p> <p>Test Engineer: <u><i>Paul M. [Signature]</i></u> Date: <u>1/13/96</u></p> <p>QA Representative: <u><i>Don Hooley</i></u> Date: <u>1/13/96</u> 1-13-97</p>	

Figure 6-14. Post-Test Checklist for Drop Test No. 7.

Post-Test Checklist for Drop No. 7	
<p>1. Examine the exterior of the target container and test area for evidence of Magnaglo with the ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the container for signs of deformation.</p> <p>Comments/Measurements: <u>Small 1/4 inch DEEP DENT NEAR TOP</u></p> <p>_____</p> <p>_____</p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglo.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments/Measurements: <u>VERY SMALL DENT</u></p> <p>_____</p> <p>_____</p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglo.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments/Measurements: <u>NO DAMAGE</u></p> <p>_____</p> <p>_____</p>	
<p>6. <u>The</u> container passed the Drop Test. (Section 3.3)</p> <p>Yes <u>(X)</u> No _____</p>	
<p>Post-Drop Checklist for Drop No. 7 has been completed.</p> <p>Test Engineer: <u>Paul [Signature]</u> Date: <u>1/13/97</u></p> <p>QA Representative: <u>LeVan Moody</u> Date: <u>1/13/97</u></p>	

6.2.9 Drop Test #8

Drop number 8 is a corner drop onto the side of a loaded convenience can system. The package must strike the side of the target can body. The drop convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released. The package shall be raised 24 in. (61 cm) above the target. If the total weight of the dropped package is less than the required 5500 grams, then the drop height shall be adjusted such that a drop energy equivalent is maintained.

6.2.9.1 Perform pre-drop test activities and complete checklist for drops.

6.2.9.2 Direct all personnel to go to their assigned, safety-approved, observation and test locations.

6.2.9.3 Authorize the rigging crew to lift the test article to the appropriate elevation and verify that the test article is in the correct orientation and is stable.

6.2.9.4 Verify test article elevation using chain marker taped to package.

Elevation = 30' QA Initial LKG

Remove chain marker before drop.

6.2.9.5 Verify cameras are operating.

6.2.9.6 Authorize the rigging crew to drop the test article on the test engineers signal.

6.2.9.7 Verify the test article is in a stable position on the test pad before proceeding to the next step.

6.2.9.8 The test engineer, cognizant engineer, and QA representative shall complete the post-drop checklist (see Figure 6-16).

Figure 6-15. Pre-Drop Checklist for Drop Test No. 8.

Pre-Drop Checklist for Drop No. 8	
<p>1. Examine outside of the target convenience can and test pad for any traces of Magnaglo with an ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u></p> <p>If Yes, clean until no response.</p> <p>Comments: _____</p>	
<p>2. Weigh drop test article on scale.</p> <p>Weight: <u>4511</u></p> <p>Scale inspection date: <u>12/12/96</u> <u>34706 01004</u></p>	
<p>3. Move test article onto test pad.</p>	
<p>4. Install rigging setup for drop. The package must strike the target on the weakest part, the longitudinal seam of the can body. The drop convenience can system should be oriented so that the line of impact on the longitudinal seam through the center of gravity (cg) is perpendicular to the floor when released.</p>	
<p>5. Attach overhead crane hook to rigging and carefully lift the test article until it is just clear of the test pad.</p>	
<p>6. Verify all test preparations for the drop are complete.</p>	
<p>7. Comments: <u>None</u></p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>Pre-Drop Checklist for Drop No. 8 has been completed.</p> <p>Test Engineer: <u>[Signature]</u> Date: <u>1/13/97</u></p> <p>QA Representative: <u>[Signature]</u> Date: <u>1/13/97</u></p>	

Figure 6-16. Post-Test Checklist for Drop Test No. 8.

Post-Test Checklist for Drop No. 8	
<p>1. Examine the exterior of the target container and test area for evidence of Magnaglo with the ultraviolet light.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments: _____</p>	
<p>2. Record damaged areas with the camera.</p>	
<p>3. Examine the exterior of the target container for signs of deformation.</p> <p>Comments/Measurements: <u>CAN SIDE CAVED IN 1 3/8 INCH</u></p> <p>_____</p> <p>_____</p>	
<p>4. Remove the outer can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglo.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments/Measurements: <u>CAN SIDE CAVED SMALL AMOUNT</u></p> <p>_____</p> <p>_____</p>	
<p>5. Remove the middle can by using the can opener on one end and pulling out the remaining cans. Use the ultraviolet light for evidence of Magnaglo.</p> <p>Response? Yes _____ No <u>X</u></p> <p>Comments/Measurements: <u>CAN SIDE CAVED VERY SMALL AMOUNT</u></p> <p>_____</p> <p>_____</p>	
<p>6. The container passed the Drop Test. (Section 3.3)</p> <p><u>Yes</u> No</p>	
<p>Post-Drop Checklist for Drop No. 8 has been completed.</p> <p>Test Engineer: <u>[Signature]</u> Date: <u>1/13/97</u></p> <p>QA Representative: <u>[Signature]</u> Date: <u>1/13/97</u></p>	

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	Packaging Engineering	Date 01/14/97
Project Title/Work Order		EDT No. 618193
Test Report for Hanford Convenience Can (HNF-SD-TP-TRP-002)		ECN No. NA

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
E. P. Bonadie	T5-55	X			
G. B. Chronister	T5-09	X			
S. R. Crow	G1-11	X			
J. G. Field	G1-11	X			
B. D. Flanagan	G1-11	X			
M. W. Gibson	T5-55	X			
D. R. Hekkala	T5-57	X			
J. M. Held	T5-11	X			
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J. L. Mejia	T5-08	X			
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