FIRE BARRIER TEST PROGRAM

Test #1 – Hemyc (1-Hour) Direct Attachment

Test Article Assembly Checklist

Reference Basis: "Plan for Hemyc (1-Hour) and M.T. (3-Hour) Electrical Raceway Fire Barrier Systems Performance Testing," Revision J, December 21, 2004. (Referred to as "the test plan" in this document.)

A. Pre-Instrumentation Test Specimen Assemblies Check

(1) 1-inch conduit No.1 IE (EMPTY)

Action	Initials	Date
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A1 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	CB	1/26/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(2) 1-inch conduit No.2 IF (Bare #8)

Action	Initials	Date	
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A1 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	CB FJW	1/26/05 2/8/05	empty Filled
Discrepancies Noted: Empty 1/26/05 filled - 2/8/05			
Resolution Actions to be Completed Prior to Approval:			

(3) 2_ -inch conduit No.1 1C (EMPTY)

Action	Initials	Date
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A2 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	CSD	1/26/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(4) 2_ -inch conduit No.2 1D (Base #8)

Action	Initials	Date
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A2 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	CSD FJW	1/26/05 empty 2/8/05
Discrepancies Noted: empty weight 1/26/05 filled weight Filled: ~~2/8/07~~ 2/8/05		
Resolution Actions to be Completed Prior to Approval:		

(5) 4-inch conduit No.1 1A (EMPTY)

Action	Initials	Date
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A3 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	[illegible]	1/26/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(6) 4-inch conduit No.2 1B (Bore #8)

Action	Initials	Date	
Verify that the conduit assembly conforms to arrangement and dimensions as shown in Figure A3 of the test plan. Ensure the weight of the empty conduit assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	CLH FJW	1/26/05 2/8/05	empty filled
Discrepancies Noted: empty wt. 1/26/05 filled wt.			
Resolution Actions to be Completed Prior to Approval:			

(7) Junction Box 1I JB only JB with Supports

Action	Initials	Date
Verify that the junction box and its support assembly conform to arrangement and dimensions as shown in Figure A6 of the test plan. Ensure the weight of the empty junction box is determined and recorded. Note any discrepancies and associated resolution actions below.	~~[illegible]~~ CLG FJW	1/26/05 2/7/05

JB only

Discrepancies Noted:

JB only 1/26/05

JB + Supports 2/7/05

Resolution Actions to be Completed Prior to Approval:

(8) 2"x2" Tube Steel Support Structure 1H

Action	Initials	Date
Verify that the tube steel support structure assembly conforms to arrangement and dimensions as shown in Figure A7 of the test plan. Ensure the weight of the support assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	FJW	2/7/05

Discrepancies Noted:

Resolution Actions to be Completed Prior to Approval:

(9) Unistrut Support Structure I G

Action	Initials	Date
Verify that the Unistrut support structure assembly conforms to arrangement and dimensions as shown in Figure A8 of the test plan. Ensure the weight of the support assembly is determined and recorded. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(10) Photographs of Assembled Test Specimens

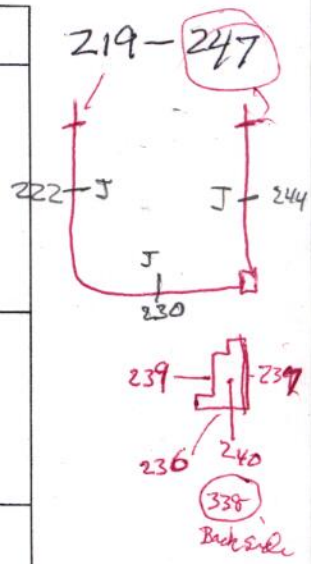
Action	Initials	Date
Verify that color or digital photographs have been taken of each assemble test specimen. Note any discrepancies and associated resolution actions below.	FJW	2/23/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

~~Check?~~

B. Thermocouple Installation of Test Specimen Assemblies Check

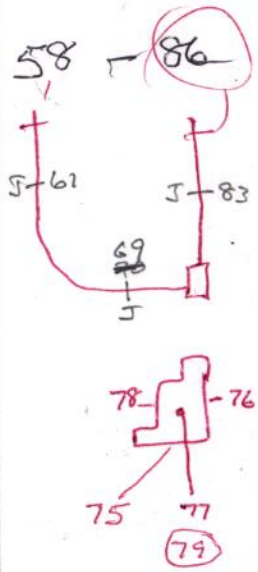
(1) 1-inch conduit No.1 1E

Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A10 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		



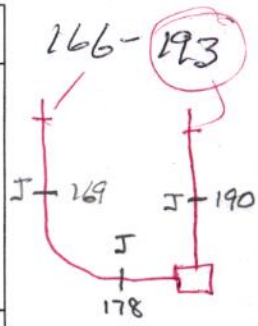
(2) 1-inch conduit No.2 1F

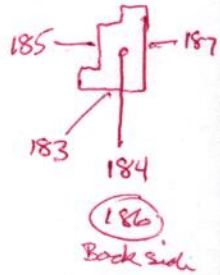
Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A10 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		



(3) 2_ -inch conduit No.1 1C

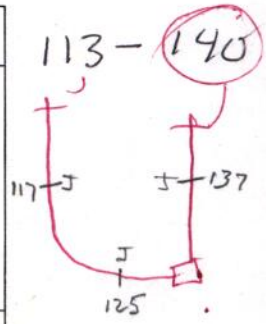
Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A11 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

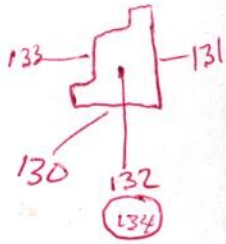




(4) 2_ -inch conduit No.2 1D

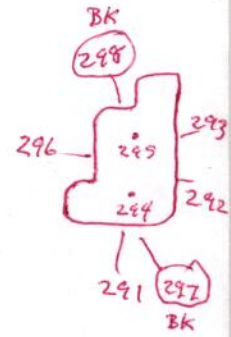
Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A11 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		





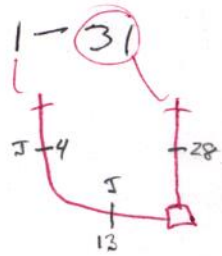
(5) 4-inch conduit No.1 1A

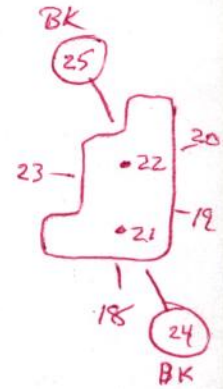
Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A12 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

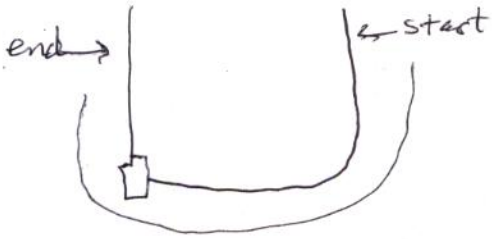


(6) 4-inch conduit No.2 1B

Action	Initials	Date
Verify that the thermocouple locations on the conduit assembly conform to the general arrangement and spacing as depicted in Figure A12 of the test plan. Ensure each thermocouple is securely fastened to the outer side or bottom surface of the conduit assembly. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

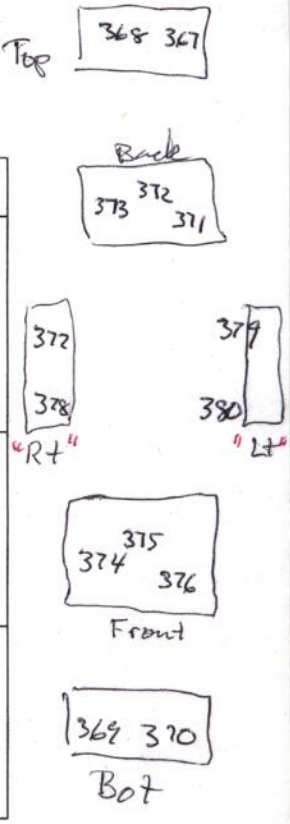






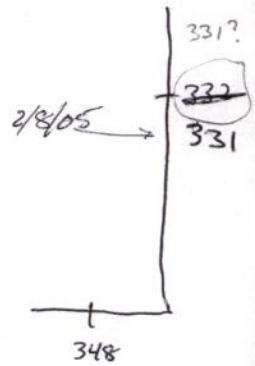
(7) Junction Box I I

Action	Initials	Date
Verify that the thermocouple locations on the junction box conform to the general arrangement and spacing as depicted in Figure A15 of the test plan. Ensure each thermocouple is securely fastened to the outer surfaces of the junction box. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		



(8) 2"x2" Tube Steel Support Structure IH

Action	Initials	Date
Verify that the thermocouple locations on the tube steel support structure conform to the general arrangement and spacing as depicted in Figure A16 of the test plan. Ensure each thermocouple is securely fastened to the outer surface. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/8/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		



(9) Unistrut Support Structure 1 G

Action	Initials	Date
Verify that the thermocouple locations on the Unistrut support structure conform to the general arrangement and spacing as depicted in Figure A17 of the test plan. Ensure each thermocouple is securely fastened to the outer surface. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.	FJW	2/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

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(10) Photographs of Instrumented Test Specimens

Action	Initials	Date
Verify that color or digital photographs have been taken of each instrumented test specimen. Ensure photographs include spacing reference scales. Note any discrepancies and associated resolution actions below.	FJW	2/23/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

~~Cleda?~~

C. Thermocouple Installation on Bare Copper Wire Checks

Action		Initials	Date	
Verify that the thermocouple locations on each of the six bare copper wires conform to the 6-inch spacing intervals, beginning and ending approximately 3-inches above the test deck and throughout the length of wire located below the deck plane, as required in the test plan. Ensure each thermocouple is securely fastened to the bare copper wire. Ensure the location of each thermocouple is recorded and identified with a unique tag number. Note any discrepancies and associated resolution actions below.				
(1) Bare Copper Wire to be installed in empty 1-inch Conduit	1E	FJW	2/8/05	248-273
(2) Bare Copper Wire to be installed with wire bundle in full 1-inch Conduit	1F	FJW	↓	87-110
(3) Bare Copper Wire to be installed in empty 2_-inch Conduit	1C	FJW	↓	218-194
(4) Bare Copper Wire to be installed with wire bundle in full 2_-inch Conduit	1D	FJW	↓	141-165
(5) Bare Copper Wire to be installed in empty 4-inch Conduit	1A	FJW	↓	305-330
(6) Bare Copper Wire to be installed with wire bundle in full 4-inch Conduit	1B	FJW	↓	32-57 tail
Discrepancies Noted:				
Resolution Actions to be Completed Prior to Approval:				

D. Bare Copper Wire Bundle Installation Checks

Action	Initials	Date
Verify that the three bare copper wire bundles contain the number of wires as specified in Table 2 of the test plan. Ensure each bundle contains one instrumented wire. Ensure the weight of each bundle is determined and recorded. Ensure the location of each bundle is symmetric within the confines of the conduit. Ensure that each condulet cover is replaced (with gasket) and securely fastened in place. Note any discrepancies and associated resolution actions below.		
(1) Copper wire bundle to be installed in full 1-inch Conduit [~~21~~ wires] 18 1F	FJW	2/8/05
(2) Copper wire bundle to be installed in full 2_-inch Conduit [~~114~~ wires] 113 1D	FJW	2/8/05
(3) Copper wire bundle to be installed in full 4-inch Conduit [~~303~~ wires] 291 1B	FJW	2/8/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

E. Test Specimen Installation Checks

Action	Initials	Date
Verify that each of the nine test specimens are securely mounted and attached to the test deck and that each test specimen is located and oriented to conform to the raceway layouts as indicated in OPL Figures 1 and 2. Ensure all thermocouple lead wires are run up through to the top of the test deck. Ensure that color or digital photographs have been taken of the complete test article assembly. Note any discrepancies and associated resolution actions below.	FJW	2/23/05
Discrepancies Noted: Photos? — Cleda		
Resolution Actions to be Completed Prior to Approval:		

The undersigned certifies that the test article assembly has been completed in accordance with the provisions and requirements of the test plan except as noted and that the test specimens are ready for installation of the ERFBS.

Francis J. Wyant	Francis J. Wyant	2/23/05
Printed Name	Signature	Date

Comments:

OPL QA/QC concurs with Sandia
[illegible] 3/10/05

FIRE BARRIER TEST PROGRAM

Test #1 – Hemyc (1-Hour) Direct Attachment

Test Article ERFBS Checklist

Reference Basis: "Plan for Hemyc (1-Hour) and M.T. (3-Hour) Electrical Raceway Fire Barrier Systems Performance Testing," Revision K, February 6, 2005. (Referred to as "the test plan" in this document.)

A. Pre-Installation Test Specimen Blanket Checks

(1) 1A: Empty 4-inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1A = 6 wraps + 4 collars - Thickness of each pad at least 2-inches. ✓ - Check outer covers for tears or openings. ✓ - Check all seams for workmanship (complete, no gaps, etc.). ✓ Note any problems and associated resolution actions below.	FJW	3/4/05
Problems Noted: ~~- Miter seam to be sewn together. FJW~~ ~~LB~~ LB cover has ≈4" circumferential overlap		
Resolution Actions to be Completed Prior to Approval: - will be removed and modified by Promatec		

(2) 1B: Loaded 4-inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1B = 6 wraps + 4 collars - Thickness of each pad at least 2-inches. ✓ - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). ✓ Note any problems and associated resolution actions below.	FJW FJW	3/4/05 3/5/05
Problems Noted: - miter seam to be sewn together. Completed 3/5/05		
Resolution Actions to be Completed Prior to Approval:		

(3) 1C: Empty 2½ -inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1C = 4 wraps - Thickness of each pad at least 2-inches. ✓ - Check outer covers for tears or openings. ✓ - Check all seams for workmanship (complete, no gaps, etc.). ✓ Note any problems and associated resolution actions below.	FJW	3/7/05
Problems Noted: A couple of small fabric tears need to be repaired		
Resolution Actions to be Completed Prior to Approval: Promatec will sew patches over tears.		

(4) 1D: Loaded 2½ -inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1D = 4 wraps + 3 collars - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/7/05
Problems Noted: Small tears of fabric need repair		
Resolution Actions to be Completed Prior to Approval: Promatec will sew on patches later		

(5) 1E: Empty 1-inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1E = 4 wraps + 3 collars - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/4/05
Problems Noted:		
Resolution Actions to be Completed Prior to Approval:		

(6) 1F: Loaded 1-inch conduit

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1F = 4 wraps - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/4/05
Problems Noted:		
Resolution Actions to be Completed Prior to Approval:		

(7) 1G: Unistrut Support Structure

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1G = 1 wrap - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/7/05
Problems Noted: A small tear in fabric at miter joint noted		
Resolution Actions to be Completed Prior to Approval: Promatec will sew on patch		

(8) 1H: 2"x2" Tube Steel Support Structure

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1H = 1 wrap - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/4/05
Problems Noted:		
Resolution Actions to be Completed Prior to Approval:		

(9) 1I: Junction Box & Support Assembly

Action	Initials	Date
Check the quality of the individual Hemyc pads to be installed: - Total number of pads for test specimen 1I = 2 wraps on JB + 4 supports - Thickness of each pad at least 2-inches. - Check outer covers for tears or openings. - Check all seams for workmanship (complete, no gaps, etc.). Note any problems and associated resolution actions below.	FJW	3/5/05
Problems Noted: Only two support wraps made.		
Resolution Actions to be Completed Prior to Approval: Mike Jordan, Promatec, will fab two additional support covers. (Done)		

B. Test Specimen Assemblies Hemyc Installation Checks

(1) 1A: Empty 4-inch conduit (Overlap Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that ~~overlap~~ joints are secure and cover the adjoining blanket by at least 2-inches. collar - FJW - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(2) 1B: Loaded 4-inch conduit (Collar Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that collar joints are secure and cover the adjacent blankets without gaps or openings. - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(3) 1C: Empty 2½ -inch conduit (Overlap Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that overlap joints are secure and cover the adjoining blanket by at least 2-inches. - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(4) 1D: Loaded 2½ -inch conduit (Collar Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that collar joints are secure and cover the adjacent blankets without gaps or openings. - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(5) 1E: Empty 1-inch conduit (Collar Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that collar joints are secure and cover the adjacent blankets without gaps or openings. - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(6) 1F: Loaded 1-inch conduit (Overlap Joints)

Action	Initials	Date
Monitor Hemyc installation on the raceway and perform the following checks: - Ensure wraps completely enclose the raceway without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Verify that overlap joints are secure and cover the adjoining blanket by at least 2-inches. - Check that the metal bands are attached to the blanket wraps on a maximum of 9-inches centers. - Check that the metal bands do not compress the blankets more than ¼ - ½ inches. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(7) 1G: Unistrut Support Structure (No Joints)

Action	Initials	Date
Monitor Hemyc installation on the support structure and perform the following checks: - Ensure wraps completely enclose the support without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(8) 1H: 2"x2" Tube Steel Support Structure (No Joints)

Action	Initials	Date
Monitor Hemyc installation on the support structure and perform the following checks: - Ensure wraps completely enclose the support without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(9) 1I: Junction Box (No Joints)

Action	Initials	Date
Monitor Hemyc installation on the junction box and support assembly perform the following checks: - Ensure wraps completely enclose the junction box and supports without gaps or visible openings. - Check that all joints and sewn seams have no gaps or openings. - Check for obvious gaps & distortions of the completed blanket wraps. - Verify that the wrap extends up each vertical leg by 6 – 12 inches above the top of the test deck. - Ensure all construction aid wires/tape have been removed. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

(10) Photographs of Wrapped Test Specimens

Action	Initials	Date
Verify that color or digital photographs have been taken of each wrapped test specimen. Ensure photographs include spacing reference scales. Note any discrepancies and associated resolution actions below.	FJW	3/7/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

C. Test Assembly Completion Checks

Action	Initials	Date
Complete the following checks of the test assembly: - Verify that the underside of the test deck is insulated. - Ensure that no gaps or openings exist between the vertical sections of each test specimen and the test deck. - Ensure that all raceway openings are plugged above the test deck. - Ensure that color or digital photographs have been taken of the complete test assembly. Note any discrepancies and associated resolution actions below.	FJW	3/9/05
Discrepancies Noted:		
Resolution Actions to be Completed Prior to Approval:		

The undersigned certifies that the test article assembly has been completed in accordance with the provisions and requirements of the test plan except as noted and that the test specimens are ready for installation in the test furnace.

Francis J. Wyant	Francis J. Wyant	3/9/05
Printed Name	Signature	Date

Comments:

I concur with Sandia
Cleda Patton OPL QA/QC 3/10/05