

NAVSEA 05Z3

Multi-Cable Transit and Sealant Qualification Test Requirements Update

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SEA 05Z33

NAVAL SEA SYSTEMS COMMAND

Cable Transit and Sealant Qualification Test

Background

SEA 05Z is developing updated fire protection and qualification test requirements details for Qualification o

- Cable Sealants MIL-I-3064
- Multi-Cable Transits MIL-DTL-24705B



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
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IN REPLY REFER TO
4123
Ser 058/2016-245
June 27, 2016

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SUBJ: NOTIFICATION OF CHANGE IN FIRE STOP TEST REQUIREMENTS UNDER
MIL-DTL-24705B

This letter is to inform QPL vendors with products currently qualified to MIL-DTL-24705B, "Penetrators, Multiple Cable, Electric Cable, General Specification for" of a change in fire stop test requirements. Due to updated fire test requirements per SEA 05P, effective the date of this letter, MIL-STD-3020 will be the guidance document for MCT fire stop testing instead of the MIL-DTL-24705B. A copy of MIL-STD-3020 may be viewed or downloaded from the following website: <http://quicksearch.dla.mil/> by using the "Document ID" search box and the keyword "3020".

Appropriate wording to update MIL-DTL-24705B qualification inspection and qualification retention fire stop criteria noted in paragraph above shall be incorporated into the next published edition of MIL-DTL-24705B.

Technical questions regarding QPL-24705 should be directed to the technical point of contact, Mr. Michael Simunek, who can be reached by phone at (215) 897-1590 or by email at michael.simunek@navy.mil. Administrative questions should be directed to Ms. Cheryl Turner by email at CommandStandards@navy.mil.

Sincerely,



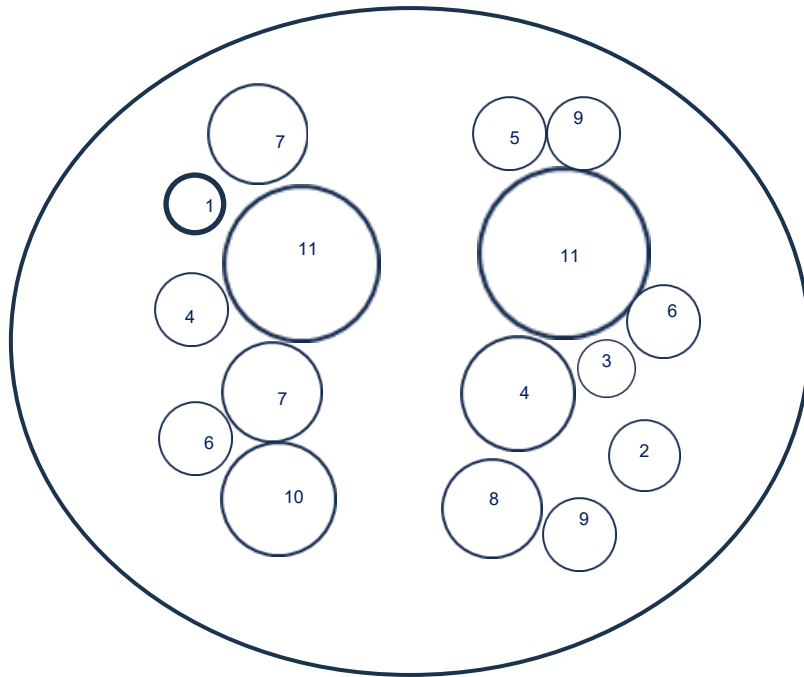
THOMAS R KONEN
NAVSEA Standardization
Officer, SEA 0581

Cable Sealants MIL- I-3064 Insulation Electrical Plastic Sealer

SEA 05Z3 and NSWC Carderock have completed a draft of the new qualifying test requirements. The order of tests for the cable sealant to MIL-I-3064 and for the cable transits to MIL-DTL-24705 will be very similar.

- The tests will add a requirement for VIBRATION testing along with medium weight SHOCK tests prior to FIRE RESISTANCE testing.
- Determining the size of the bulkhead and deck sections needed for vibration and shock testing.
- MIL-STD-3020 calls for a 4' x 10' section of each. There are issues that make fixturing sections this large difficult.
- Seeking input from the Shock TWH for guidance for reducing the section sizes to 4' x 8' or possibly to 4' x 6' .
- We need to insure that vibration and shock OQE can be obtained with the smaller deck/bulkhead.
- Since Vibration Testing is not called out in MIL-STD-3020 we added it to our requirements in the cable transits and transit sealant specs.
- Will NOT require 2 sections of both the bulkhead and deck for fire resistance testing of unshocked and shocked sections per MIL-STD-3020.
- We are testing the efficacy of the transits and not the bulkhead and deck sections. We only need to fire test the shocked sections.

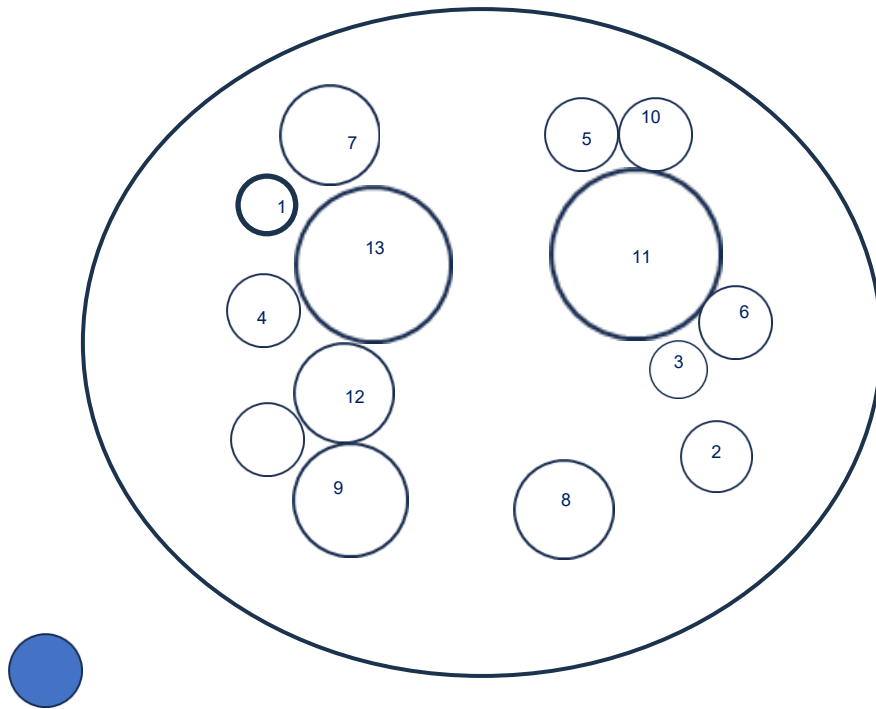
NOT TO SCALE: Figure 3 Currently in spec



No.	Type	No.	Type
1	RG213	7	TTRS 16
2	MSCU-7	8	TTRS 6
3	RG 215	9	SWAU 10
4	RG218	10	MSCU 14
5	MSCA 19	11	3SA 19
6	TTRS 2		

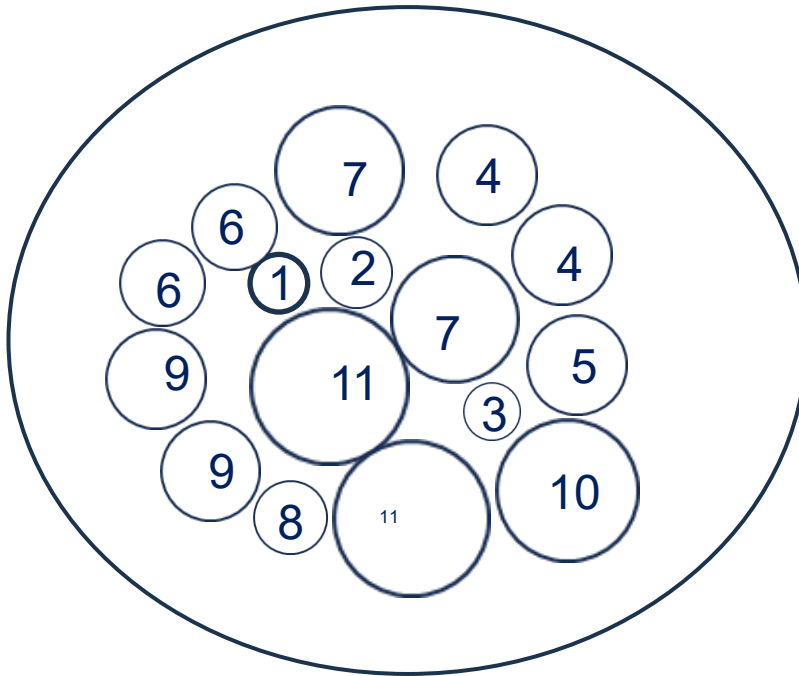
NOT TO SCALE: Fig 3 update, Need to add Cable #12 and #13

NOTE: See 6.6 for cable type slant sheet

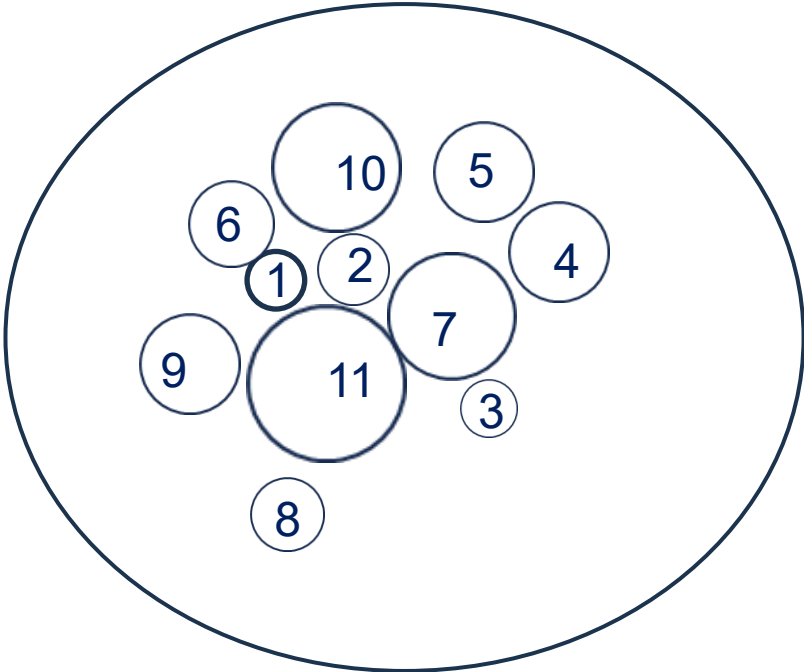


No.	Type	Diam (inches)	No.	Type	Diam (inches)
1	RG189-00001	0.405	7	LSTTR S 16	1.19
2	LSMSC S-7	0.544	8	LSTTR S-6	0.880
3	RG189-00002	0.475	9	LS2SW AU 10	0.83
4	RG193-00001	0.87	10	MIL-PRF-85045/2 5	0.315
5	MIL-PRF-85045/1 7	.00787	11	LS3SU S 10	2.21
6	LSTTR S 2	0.68	12	LSFSG U-23	0.89 Inches
			13	LSPI-7	0.9 Inches

NOT TO SCALE: Figure 3 Currently in spec



NOT TO SCALE: Fig 3 update, Need to add Cable #12 and #13



Cable Sealants MIL- I-3064 Insulation Electrical Plastic Sealer

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Order of testing of the cable transits and cable transit sealant in 4' x 10' bulkhead and deck sections

- Vibration per MIL-STD-2020 and MIL-STD-167
- Soap and Blow
- Shock per MIL-STD-2020 and MIL-S-901
- Soap and Blow
- Fire stop resistance per MIL-STD-3020
- Hose Stream Tests per MIL-STD-3020

Multi Cable Transits

MIL-DTL-24705B and Slants 1 3 4 Penetrators Multiple Cable Electric Cable (MCTs)

- Project started to update all Fire Safety Tests per MIL-STD-3020.
- Vibration and Shock testing prior to Fire Resistance Test for QPL products will be required.
- Tailoring MIL-STD-3020 vibration and shock bulkhead and deck frame tests similar to 3064
- Will work with NSWC CD to finalize and provide detailed updates as soon as 3064 is at SRB.

Questions?