

दूरभाष: २३०६/ Tele: 2306

सम्मिश्र जांच दल/ Composite Trials Team
द्वारा नौसेना कार्यालय/ c/o Navy Office
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अन्धमान एवं निकोबार कमान/
Andaman & Nicobar Command
पोर्ट ब्लैयर ७४४ १०२/ Port Blair 744 102

CTT/300/04/04/TECH

०७ नवम्बर २३/Nov 23

प्रधान सेनापति/ The Commander-in-Chief
{(कृते कमान तकनीकी अधिकारी (समुद्री/ विधुत)/ for CTO (M/ ML)}
मुख्यालय/ Headquarters
अन्धमान एवं निकोबार कमान/ Andaman and Nicobar Command
द्वारा नौसेना कार्यालय/ c/o Navy Office
पोर्ट ब्लैयर ७४४ १०२/ Port Blair 744 102

END OF REFIT TRIALS - MAJOR FIRE FIGHTING SYSTEM (HALON)
INS KARMUK (NR-23)

1. Refer to INS Karmuk Fax 300/3/10/NR-23 dated 02 Nov 23.
2. Trials of Major Fire Fighting System (Halon), including functional checks was conducted on 03 Nov 23. Detailed reports are placed at enclosure, however salient observations are as follows:-
 - (a). Audio and visual alarm in main control panel of DCHQ non-ops.
 - (b). Pressure gauge of bottle number 4 in Port Halon compartment not fitted.
 - (c). Flexible hoses in both Halon compartments painted.
 - (d). Back up supply (24 V DC) for main control panel not available in DCHQ.

(एस सी विलियम/ SC William)
कमांडर/ Commander
प्रभारी अधिकारी/ Officer-in-Charge

Encl: -

1. Functional checks of MER.
2. Functional checks of FWD DA
3. Functional checks of AFT DA
4. Blow through of lines
5. Resetting the system

Copy to: -

कोमोडोर अधीक्षक/ The Commodore Superintendent
{कृते उप महाप्रबंधक (मरम्मत) / for DGM (Refit)}
नौसेना पोत मरम्मत यार्ड/ Naval Ship Repair Yard
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कमान अधिकारी/ The Commanding Officer
भा. नौ. पो. कार्मुक/ INS Karmuk
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FUNCTIONAL CHECKS OF HALON SYSTEM AT MER

<u>Ser</u>	<u>Procedure</u>	<u>Monitoring Parameter Component checks</u>	<u>Remarks</u>
(a)	Check Halon panel in DCHQ.	<p>Check that required main supply/back up supply is available in main control panel/ Annunciation panel (Both 230V, AC and 24 V DC) and respective indication lamps are glowing.</p> <p>Press the alarm and lamp test button in main control panel and check that all visual and audio alarm are working.</p>	Back up supply not available Audio and visual alarm in main control panel of DCHQ non-ops
(b)	Open door of Halon release box for MER at Halon Compartment. (System can be operated from DCHQ and Halon Compartment).	Check that ventilation are crash stopped immediately.	Sat
		Check that Audio and Visual alarm are operating in MER.	
		Check the indication of 'Door Open MER' glows in panel at DCHQ.	Sat
(c)	Manually open the DCV of MER.	Check the indication 'DCV MER' glows in panel at DCHQ.	Sat
(d)	Check functionality of low pressure alarm of Nitrogen bottles for MER.	Check the indication of 'Nitrogen Low MER' glows in panel at DCHQ.	NA
(e)	Check functionality of low pressure alarm of Halon bottles for MER.	Check the indication of 'Low Pressure Halon' glows in mimic panel at DCHQ.	Sat
(f)	Check functionality of pressure switch for MER provided in the manifold.	Check the indication of 'Halon Pressurized' glows in panel at DCHQ.	Sat

FUNCTIONAL CHECKS OF HALON SYSTEM AT FWD DA

<u>Ser</u>	<u>Procedure</u>	<u>Monitoring Parameter Component checks</u>	<u>Remarks</u>
(a)	Check Halon Annunciation panel in DCHQ.	<p>Check that required main supply/back up supply is available in main control panel/Annunciation panel (Both 230V, AC and 24 V DC) and respective indication lamps are glowing.</p> <p>Press the alarm and lamp test button in main control panel and check that all visual and audio alarm are working.</p>	Back up supply not available. Audio and visual alarm in main control panel of DCHQ non-ops.
(b)	Open door of Halon release box for MER at Halon Compartment. (System can be operated from DCHQ and Halon Compartment).	Check that ventilation are crash stopped immediately.	Sat
		Check that Audio and Visual alarm are operating in MER.	
		Check the indication of 'Door Open FWD DA' glows in panel at DCHQ.	Sat
(c)	Manually open the DCV of MER.	Check the indication 'DCV FWD DA' glows in panel at DCHQ.	Sat
(d)	Check functionality of low pressure alarm of Nitrogen bottles for MER.	Check the indication of 'Nitrogen Low FWD DA' glows in panel at DCHQ.	NA
(e)	Check functionality of low pressure alarm of Halon bottles for MER.	Check the indication of 'Low Pressure Halon' glows in mimic panel at DCHQ.	Sat
(f)	Check functionality of pressure switch for MER provided in the manifold.	Check the indication of 'Halon Pressurized' glows in panel at DCHQ.	Sat

FUNCTIONAL CHECKS OF HALON SYSTEM AT AFT DA

<u>Ser</u>	<u>Procedure</u>	<u>Monitoring Parameter Component checks</u>	<u>Remarks</u>
(a)	Check Halon Annunciation panel in DCHQ.	<p>Check that required main supply/back up supply is available in main control panel/Annunciation panel (Both 230V, AC and 24 V DC) and respective indication lamps are glowing.</p> <p>Press the alarm and lamp test button in main control panel and check that all visual and audio alarm are working.</p>	Back up supply not available. Audio and visual alarm in main control panel of DCHQ non-ops.
(b)	Open door of Halon release box for MER at Halon Compartment. (System can be operated from DCHQ and Halon Compartment).	Check that ventilation are crash stopped immediately.	Sat
		Check that Audio and Visual alarm are operating in MER.	
		Check the indication of 'Door Open AFT DA' glows in panel at DCHQ.	
(c)	Manually open the DCV of MER.	Check the indication 'DCV AFT DA' glows in panel at DCHQ.	Sat
(d)	Check functionality of low pressure alarm of Nitrogen bottles for MER.	Check the indication of 'Nitrogen Low AFT DA' glows in panel at DCHQ.	NA
(e)	Check functionality of low pressure alarm of Halon bottles for MER.	Check the indication of 'Low Pressure Halon' glows in mimic panel at DCHQ.	Sat
(f)	Check functionality of pressure switch for MER provided in the manifold.	Check the indication of 'Halon Pressurized' glows in panel at DCHQ.	Sat

BLOW THROUGH OF LINES

<u>Ser</u>	<u>Procedure</u>	<u>Monitoring Parameter/ Component checks</u>	<u>Remarks</u>
(a)	Connect up the LP airline to the HALON manifold through an adapter provided within the Halon compartment.	Ensure availability of air with pressure up to 7 Bar.	Sat
(b)	Manually open the DCV for MER after removal of pin from the joint.	The indication of 'Halon Pressurised' should appear on panel in DCHQ. The following needs monitoring:- (i) The pressure switch should operate including HALON discharge alarm should pop up in panel in DCHQ. (ii) The nozzles at MER are to be checked physically for unobstructed air flow.	Sat
(c)	Manually close DCV for MER. Ensure all DCVs for compartments are shut. Open the manifold vent valve.	Check the availability of air through the end of the pipeline open to atmosphere on upper deck.	Sat

RESETTING THE SYSTEM

<u>Ser</u>	<u>Procedure</u>	<u>Monitoring Parameter/ Component checks</u>	<u>Remarks</u>
(a)	Open the 'Manual Release Valve to atmosphere' on the common HALON manifold.		Reset
(b)	Manually close the directional control valve of MER, Fwd DA and Aft DA.	Ensure that the limit switch valve upon closing of the DC valve and indication at DCHQ.	Reset
(c)	Connect Pilot bottle system line and pressure sensor connection.	Ensure that the alarm of ' Nitrogen Low MER ' and ' Low Pressure Halon ' indication in panel at DCHQ reset.	Reset
(d)	Connect Halon bottle pressure sensor connection.	Press Lamp Test button and check that all indication lamps are operational.	Reset
(e)	Check Halon indication panel in DCHQ.	Ensure indication Panel. Annunciation Windows (system ON) indication are ON.	Reset