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## TECHNICAL BULLETIN

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# BELL-LARS HANDLING SYSTEM

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THE PRESENT TECHNICAL BULLETIN CONTAINS TECHNICAL INFORMATION AIMED TO SUPPORT/IMPROVE DRASS EQUIPMENT CURRENTLY IN OPERATION.

YOU ARE KINDLY REQUESTED TO:

- COMMUNICATE IF THIS DOCUMENT AND THOSE FOLLOWING SHOULD BE SENT TO DIFFERENT E-MAIL ADDRESSES.
- CONTACT DRASS FOR ANY CLARIFICATION REQUIRED.
- INVOLVE DRASS FOR THE IMPLEMENTATION OF ANY SUGGESTED MODIFICATIONS.
- ALWAYS INFORM DRASS OF ANY MODIFICATION TO DRASS EQUIPMENT TO VERIFY SAFETY, ALLOW TRACEABILITY AND LIFE CYCLE SUPPORT.

PLEASE NOTE THAT TECHNICAL BULLETINS WILL BE AVAILABLE AT [WWW.DRASS.IT](http://WWW.DRASS.IT) FOR PERMANENT CONSULTATION.

### REASON FOR ISSUE

SECURITY AND FUNCTIONAL EQUIPMENT IMPROVEMENT FOR THE BELL HANDLING SYSTEM.

THE PRESENT IMPROVEMENT IN THE CONFIGURATION OF THE LAUNCH AND RECOVERY SYSTEM IS AIMED TO ENSURE AN INCREASED LEVEL OF SAFETY AND REDUNDANCY.

IN THE PRESENT CONFIGURATION THE OPERATION OF THE HANDLING SYSTEM CAN BE COMPROMISED IN THE FOLLOWING SITUATIONS:

- FIRE IN THE DIVE CONTROL ROOM, AT SUCH EXTENT TO MAKE THE BELL HANDLING CONTROL CONSOLE (B.H.C.C.) INACCESSIBLE
- PHYSICAL DISCONNECTION OF ELECTRICAL CONNECTION FROM BHCC TO THE WINCHES.

### DESCRIPTION

THE EVENTS MENTIONED PREVIOUSLY ARE CONSIDERED IMPROBABLE, NEVERTHELESS THE IMPROVEMENT REPRESENTS A SPECIFIC CLIENT REQUIREMENT IMPLEMENTED WITH THE AIM OF CONTINUOUS IMPROVEMENT.

THIS NEW MODIFICATION ALLOWS THE LARS OPERATOR TO MANAGE THE SYSTEM USING THE EMERGENCY HANDLING CONSOLE WITHOUT THE NEED FOR CONNECTION WITH THE BELL HANDLING CONTROL CONSOLE AND THE SWAPPING UNIT; THE PORTABLE CONSOLE IS DIRECTLY CONNECTED TO THE HYDRAULIC POWER UNIT (HPU).

THE UPGRADE KIT ALSO OFFERS THE POSSIBILITY TO INCREASE THE SAFETY LEVEL THROUGH A BETTER CONFIGURATION OF THE EMERGENCY PUSH-BUTTONS AND DUMMY FLYING CONNECTORS.

USING A DEDICATED EMERGENCY LOOP, THE EMERGENCY PUSH BUTTONS DIRECTLY CONTROL THE HPU POWER SUPPLY, STOPPING THE SYSTEM UNTIL A SAFE SITUATION IS RESTORED.

THIS KIT IS COMPOSED OF:

- AN ADDITIONAL JUNCTION BOX, CALLED " EMERGENCY CONNECTION JB" FROM WHICH CABLES WITH FLYING CONNECTORS ARE ROUTED. THESE CONNECT THE JUNCTION BOX TO THE OTHERS BOXES OF THE HPU, BELL WINCH, GUIDE WIRE WINCH, UMBILICAL WINCH AND EMERGENCY B.H.C.C. (SEE DRAWING PAGE 3).  
THE LENGTH OF THESE CABLES SHALL BE CHOSEN ACCORDING TO THE VESSEL DESIGN IN ORDER TO ALLOW THE MAXIMUM POSSIBLE VISIBILITY IN THE HANGAR AREA.
- BULKHEAD CONNECTORS TO BE INSERTED IN THE JUNCTION BOXES OF THE HPU, BELL WINCH, GUIDE WIRE WINCH, UMBILICAL WINCH (IF NOT ALREADY PRESENT).
- NEW DUMMY CONNECTORS TO BE INSERTED BETWEEN FLYING CONNECTORS "A" AND "B" SITUATED INSIDE THE BELL HANDLING CONTROL CONSOLE.



- NEW EMERGENCY PUSH BUTTON ON B.H.C.C. (IF NOT ALREADY PRESENT).
- A NEW PRINTED FRONT PANEL OF THE EMERGENCY B.H.C.C.

THE PREVIOUS FUNCTIONALITY OF OPERATING THE EMERGENCY CONSOLE FROM THE B.H.C.C. IS MAINTAINED WITH THE IMPLEMENTATION OF THE PRESENT IMPROVEMENT.

WHEN THE OPERATOR USES THE EMERGENCY CONSOLE DIRECTLY CONNECTED TO THE EMERGENCY CONNECTION JB, THEY CAN POSITION THEMSELF AND THE EMERGENCY HANDLING CONSOLE IN AN APPROPRIATE LOCATION TO HAVE A GOOD VIEW OF THE AREA OF OPERATION.

DUE TO THE KEY FEATURES OF THE HANDLING SYSTEM, IT IS RECOMMENDED TO EXECUTE THE MODIFICATION IN THE PRESENCE OF DRASS QUALIFIED PERSONNEL.

PRIOR TO THE MODIFICATION A VISIT FROM DRASS PERSONNEL IS RECOMMENDED TO VERIFY THE STATUS OF THE ELECTRICAL SYSTEM AND TO PLAN THE INSTALLATION WITH THE MINIMUM IMPACT FOR THE VESSEL IN TERMS OF TIME AND RESOURCES.





THE IMPROVEMENT KIT AND ASSISTANCE CAN BE REQUESTED FROM CLAUDIA.RAMIREZ@DRASS.IT; AND COPY TO SALES@DRASS.IT WITH REFERENCE TO “BELL-LARS HANDLING SYSTEM FD40 - 0006”

#### RECOMMENDATIONS

1. USE ONLY DRASS ORIGINAL UPGRADE KIT
2. RECORD THE MODIFICATION IN THE DOCUMENTATION OF THE DIVING SYSTEM
3. REPORT THE EXECUTION OF THE IMPROVEMENT (AS PER OEM RECOMMENDATIONS) TO THE CLASS SURVEYOR DURING THE ANNUAL SURVEY.