11th CHRIS MEETING
IHB, Monaco, 16-18 November 1999

IEC

Report to the TECHNICAL COMMITTEE No.80:
Maritime navigation and radiocommunication equipment and systems

STATUS OF MT1: MAINTENANCE TEAM FOR IEC 61174
(Dr. Lee ALEXANDER)

1. The first meeting, chaired by Michael Rambaut, was held in London at CIRM headquarters July 7, 1999.

2. Lieutenant Daniel Mades, US Coast Guard Navigation Center was chosen as Convener.

3. The following tasks and task leaders for the MT were identified:

	Task	Task Leader
1	Incorporate the requirement and testing of RCDS, limit the data format to British Admiralty or NOAA	Chris Drinkwater
2	Write tests for Annex 6 of the IMO PS for back up arrangements	Per Larsen
3	Study the navigation Related Symbols, for a future edition	Lee Alexander
4	Re write the Color calibration procedure to be lab, production and service friendly and feed back the results to IHO	Hannu Pieponen
5	Look at references within 61174 to the Test data set and identify problems and changes required and feed back the results to IHO for incorporation into S52.	Neil Guy
6	Keep a watching brief on encryption with IHO for possible inclusion in a later edition.	Neil Guy
7	Review Current Standard for other minor problems and change where necessary	Martin Taylor

More detailed descriptions of the tasks are attached.

4. Milestones:

   a. Draft task outlines posted on ftp site in September 1999. This is in progress. As of September 22, one has been posted, and two additional have been promised to arrive shortly.

   b. Final drafts from each team for incorporation into the Standard in April of 2000.

   c. CDV ready for submission to Geneva in July of 2000.

5. Using ftp and e-mail it should not be necessary to have another meeting until the CDV draft is available.

Task 1:   Incorporation of RCDS.
The Team understood that now that IMO had incorporated the RCDS option into the ECDIS Performance Standard, that it was necessary to incorporate the requirement and suitable tests into the Standard. Some discussion took place about the format for the data and it was decided that currently the two systems in use were British Admiralty and NOAA, and tests should be limited to these two only.

Task 2:   Incorporation of IMO Back-up arrangements.
This item cause much discussion mostly centred on the question of whether the IMO term ECDIS incorporated the hardware for back-up or only suitable interfaces. Some team members believed that as Paper Charts may be used as back up, so no testing was necessary in this area, however others believed that during Type Testing this facility should be checked at least with regard to passing planned routes electronically to another device. It was eventually decided that the Team could do no more than try to draft tests to meet the current IMO requirement.

Task 3:   Navigation Related Symbols.
The team was made aware that as other equipment was being developed especially the UAIS, the symbols in the presentation library were being changed. It was clear that any work in this area would not meet the time-scales envisaged for this Team, however the work should be progressed with a future revision in mind. Lee Alexander presented a paper on symbols for use with AIS. (61174 MG 1/4)

Task 4:   Colours and Symbols.
It was made clear to theTeam, that the problem here was the very difficult Colour Calibration Procedure indicated for test and production. It was felt that the Tolerances specified in the IHO S52 were difficult to meet, and that these had been carried over into the Standard. It was decided to develop easier limits without compromising the performance. The result should be fed back to IHO.

Task 5:   ENC Test Data Set.
A number of the inputs mentioned above were about problems with the Test Data Set. It was decided to pass these problems to IHO for clarification and to task IHO to provide a new TDS incorporating such items found to be a problem such as date-start and date-end objects.

Task 6:   Encryption.
It was well understood by the team that some ENC data was proposed to be supplied encrypted. The reasons for this are not within the remit of the Team, however it would make testing difficult if a number of different encryption systems were to be used. After some discussion it was decided to leave the Standard as it was for S-57 data only and keep a watching brief through IHO on encryption for a future revision of the Standard.

Task 7:   Miscellaneous improvements
It was decided that a small team should re-read the current Standard and report any other anomalies without being tempted to do a re-write.