



Department of Navigation and Oceanography
Of the Russian Federation
Ministry of Defence
FAO: Captain Sergey Travin and Captain Oleynikov
8, 11 Liniya
Saint Petersburg, 199034
RUSSIE

Saint Germain en Laye, March 30, 2016

Our ref: 1RUSS01/16-094

Dear Captain Travin and Captain Oleynikov

I wish to express thanks for the very thoughtful and excellent arrangements made for the visit by IALA to Saint Petersburg for discussions on the provision of aids to navigation in the Russian Federation and on the work of IALA. We were able to have a comprehensive exchange of views and gained a better understanding of the challenges that you face from geography and climate.

It was disappointing that Captain Travin was called away at the last moment, but we hope that his mission was successful, and look forward to meeting him at the earliest opportunity. In the absence of Captain Travin, Captain Oleynikov led the discussions with skill and enabled us to develop a good relationship.

During our discussions we covered the following matters.

1. The main directions of the development of the lighthouse authorities of the Russian Federation Defence Ministry
2. The project to change IALA from an NGO to an IGO
3. The Arctic Seminar planned by IALA and IHO for 2017
4. Resilient PNT and the work of the FERNS Council
5. IALA Manuals, Recommendations, and Guidelines.

Attached please find the IALA summary notes of the meeting. If any corrections or additions should be made, I would be pleased to hear.



Again our thanks for your hospitality and kindness during our visit. Michael Card and I send our best wishes to you both and our special thanks to Viktoriya Pogolian, Dmitry Shmelev, and Ludmila Vasilchenko for their excellent work.

With kind regards

A handwritten signature in blue ink, reading "F. Zachariae". The signature is written in a cursive style with a large initial "F" and a long, flowing "Zachariae".

Francis Zachariae
Secretary-General



Notes of a meeting between the Department of Navigation and Oceanography of the Russian Federation and IALA held on March 25, 2016

1. The main directions of the development of the lighthouse authorities of the Russian Federation Defence Ministry

DNO described the present state of Aids to Navigation in the Russian Federation, with a total of 4,585 items including 1,849 floating aids. DNO then explained the main directions of development of the Aids to Navigation system for conventional aids, the development of GLONASS correction stations, and the development of radio technical navigation aids. IALA was presented with copies of an informative booklet to illustrate the present status and the development work.

2. The project to change IALA from an NGO to an IGO

IALA provided a report on this project which was submitted to the IMO Assembly[, and an explanatory document] attached here as Annex A.

DNO advised that it has received no information from the Ministry of receipt of any diplomatic communication from France. IALA promised to investigate this non-receipt of correspondence with the French authorities and took immediate action on this matter in France on Tuesday 29 March.

DNO expressed concern that the target date for the diplomatic conference of 2018 (in Korea) left a short time for nations including the Russian Federation to make the necessary administrative and diplomatic preparations. IALA noted this concern and will do all it can to hurry communications to the Russian Federation via the French diplomatic process.

Action:- IALA to inform DNO of status of correspondence to the Russian Federation.

3. IALA visual identity

IALA described the new visual image for IALA and how this was developed in 2015. DNO expressed its satisfaction with this development and considered it important for IALA.

4. The Arctic Seminar planned by IALA and IHO for 2017

IALA provided that latest draft document explaining the format and purpose of the proposed IALA-IHO Arctic Seminar to be held at IALA HQ in 2017. Refer Annex B.

DNO explained that it works in cooperation with the Ministry of Transport on the provision of aids to Navigation.

DNO would like the Seminar to have an ongoing outcome, with a direction of work agreed, and the persons or organisations to carry this out, so that the cooperation and action can be continued after the Seminar. Follow-up meetings or Seminars were discussed. IALA noted this and agreed and informed DNO that IALA and IHO already had similar views.

Action:- IALA to write to Captain Travin advising of the planned Seminar, and indication draft programme, draft goals, proposed participants, and general organisation as well as planned month in 2017.

5. Resilient PNT and the work of the FERNS Council



DNO provided a brief to IALA of its involvement in IALA PNT work within the IALA ENAV Committee, and its collaboration with Internavigation in the development of Chayka. Captain Oleynikov had met Internavigation in Moscow on 4 March to discuss the work of the FERNs Council.

DNO advised that in April it will organise a conference on the development of the Hydrographic Service to the year 2030, and this will include the development of Chayka and the cooperation of DNO with Internavigation and also the matter of FERNs and IALA cooperation. On this point, DNO noted the importance of the IALA work on eLoran/eChayka, and that the IALA documents would be the foundation for the Russian guidance for eLoran/eChayka.

DNO advised that Internavigation is presently working on “sample” items, and IALA understands that these might be receiver or transmitter equipment, and IALA looks forward to hearing more about this positive development.

IALA provided a briefing on its understanding of Loran and eLoran developments in Europe and USA, where it appears clear that eLoran will not proceed further and so has no future there. IALA expressed its strong support for FERNs and the development of eChayka/eLoran in the FERNs area, and hoped that other countries might join this cooperation. India was mentioned as a possible e-Loran candidate.

IALA also noted informal comments of some FERNs members that FERNs might expand its remit from Chayka/Loran to be a cooperation mechanism for all types of radio-navigation systems in the FERNs area. IALA would support such a development were it to happen.

IALA noted the development of “R-mode” for future use by existing medium frequency radio beacons (DGNSS beacon stations) and advised that it will publish advice to its members to retain these stations for future R-mode back-up for GNSS and also for possible (low data rate) broadcast of digital Maritime Safety Information. IALA hoped that R-mode would be developed for use in Europe and other parts of the world. DNO expressed its interest in the development of R-mode.

IALA sees that a mix of GNSS back-up systems, rather than just a single system, now appears to be certain, but notes that software receiver technology is developing quickly, and it is likely that integrated on-board systems will soon be developed to process GNSS and a mix of available back-up signals including eChayka/eLoran, R-mode, other radio navigation systems, and perhaps “signals of opportunity”.

In the detailed discussion on these topics it was clear that DNO and IALA held very similar views. DNO suggested that the R-mode work should be advised to all IALA Committees

Action:- IALA will copy its “Technical Policy” document, now in preparation, to DNO when complete, planned for late 2016, and to include GNSS back-up and R-mode. IALA will include a GNSS back-up receiver policy in the Technical Policy document.

IALA will ensure that all Committees are aware of the R-mode work and its potential.

6. IALA Website, Manuals, Recommendations, and Guidelines.

IALA Website: DNO advised that it uses the IALA website a great deal, and its ongoing development and improvement is vital for the DNO. IALA took note.



DNO also mentioned later that it would like to have space in the IALA website for placing technical documents on its cooperation work with other countries in the Aids to Navigation field. IALA agreed that this can be done.

Action:- IALA to advise DNO how to provide documents for posting on the IALA website, and which documents are suitable for this action.

Manuals and other publications: DNO explained that it uses the IALA “Navguide” and Recommendations and Guidelines in their own right and as a basis for translation into Russian language for DNO staff. In particular DNO requested that IALA should retain the Navguide with its present content, but would like it to be updated every two years. Electronic format is suitable. DNO made similar comments concerning the VTS Manual.

DNO would like to see a wider dissemination of e-Navigation test bed results, outside the groups directly involved.

7. IMO matters

IALA has submitted two documents for MSC96. These are attached as Annex C and Annex D.