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WILD GOOSE ASSOCIATION

QUARTERLY NEWSBULLETIN

Spring 1987

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FOREWORD (Editor)

The next issue is scheduled for publication in the month of September and will cover the 1987 Summer Quarter (June-July-August). September 1 is the deadline for submission of any material for publication.

In the last issue, an article in The Aviation Consumer concerning tests conducted on selected Loran receivers was reported. Several Loran receiver manufacturers have sent us comments containing expressions of concern to the manner in which the tests were conducted.

The Wild Goose Association's Quarterly Newsbulletin is a publication intended to provide its members with information of interest about navigation, in general, and Loran C, in particular. Some information contained in this publication is material that the Editor has included, usually with citation of the resource from which the information was derived and with an objective summary of its content. If elements of the information extracted from other sources on the initiative of the Editor is distasteful to some readers, that practice will be suspended. As a committee of one, the Editor is simply attempting to disseminate a wide variety of Loran general interest material.

PRESIDENT'S COLUMN (Walt Dean)

A number of interesting and important events have occurred in the loran community in the past few months. Some mentioned here are reported in greater detail elsewhere in the Newsbulletin.

WGA Director Ed McGann resigned as President of Racal/Megapulse in April of this year, leading many of us to speculate about the future of the company and the solid state loran transmitters. In May, he and the other original stockholders of Megapulse arranged for financial help to buy back the company from Racal. As of this writing that process is well under way. We wish them well.

A special meeting of the International Association of Lighthouse Authorities (IALA) was held in London on 11-12 March, attended by about 100 delegates from 23 countries, to discuss the future direction of radionavigation service, particularly to Northwest Europe. CAPT Ned Keeler presented a paper at the meeting and a summary of his report is given elsewhere in this issue.

The latest loran non-precision approach to be approved was flown at Orlando, Florida in May. In addition, the FAA announced at a meeting in Anchorage that they are planning to implement a number of loran approaches in Alaska. Details are still sketchy.

A number of discussions have been held with an eye to improving the interchain timing of the present loran system, which could serve to make practical a loran receiver measuring interchain time differences. This would extend the range and improve the integrity of existing and future chains. An additional incentive is the possibility of synergism with GPS. The FAA has stated that the proposed 18 satellite configuration of GPS is not adequate navigation for civil aircraft. The cost of upgrading the system is estimated in the order of a billion dollars. If loran and GPS were timed together, then a combined loran/GPS navigation receiver would have the necessary redundancy that it probably could be certified as a "sole means" IFR navigation system. Representative Danny Smith of Oregon has shown considerable interest in this approach and has stimulated the Coast Guard to study its feasibility.

Martin Shuey has offered a special treat for the spouses at the WGA Convention this year - a trip through the historic site of Harpers Ferry. There will be more on this later.

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(and other WGA members who desire to participate) in a coordinated fashion (to avoid duplicating our visits, control the necessary follow-up actions for each meeting, and maintain a historical file).

A committee report with action items is in the press for distribution. Please contact John Illgen if you desire a copy. WGA officers and Board members will automatically receive a copy.

Committee members, Bob Bronson, John Illgen, Ed McGann, and Bob Miller recently presented Loran-C papers at the Association for Unmanned Vehicle Systems meeting held at the Stanford Research Institute in January. John Illgen was Chairman of the Technology Session for both the morning and afternoon sessions.

Editor's Comment John received an award citing his efforts in developing the Technology Session.

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loran and GPS has the potential to eliminate many of the integrity problems presently prophesized for GPS.

CONCLUSIONS - The IALA Special Radionavigation Conference reached the following conclusions:

1. It was noted with great satisfaction that following the Conference, the Governments of the countries listed below will enter into direct negotiations with one another to consider the possibility of extending Loran-C coverage in Northwest Europe: Denmark, France, Federal Republic of Germany, Iceland, Netherlands, Norway, United Kingdom.

2. IALA will continue to pursue the possibility of extending Loran-C coverage along the Iberian Peninsula, and in the Mediterranean, until such time as the Governments concerned are in a position to enter into direct negotiations with each other.

3. It was requested that IALA be kept generally informed of the progress of the negotiations in 1. above to assist the IALA in the pursuit of 2. above.

4. It was agreed that users should be given adequate notice by the Authorities concerned of the intentions to change from one system to another. It was further agreed that an adequate period of overlap should be maintained when changing from one system to another.

5. The efficiency of Loran-C for civil aviation users and land users should be borne in mind when considering the economics of introducing Loran-C.

6. It was agreed that in appropriate national and regional areas, radionavigation systems should be maintained after the introduction of new satellite navigation systems for the foreseeable future.

7. It was agreed that IALA will support the standardization of the coordinate conversion process whether it is accomplished through the Loran-C receiver or through corrections applied to charts.

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was outstanding. I intend to use such methods of communication if elected your President. Finally, communication is very important and, if elected, I will (at my own expense) install a phone in my home for a WGA Hotline and will advertise the number in the newsletter. I will ask the entire membership to call me (collect if necessary) to share their thoughts on the issues, direction WGA is taking, or any other Loran-C/navigation related concern.

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Once the MOU with NERC is completed, we plan to screen the NERC database for PLC's using the bands near 90-110 kHz. We hope to make this information available to the LORAN community, provided we can get the IRAC and NERC to loosen language in the MOU restricting use of the database. We are considering sending letters to new PLC users of the LORAN bands (and possibly all existing users as well) advising them of their potential interference to LORAN, and their liability for correcting interference problems.

NERC will not register non-utility users of the power line carriers (e.g. power line telephone devices now being marketed by a growing number of companies). However, IRAC will propose that government users of PLC notify NERC and their data be included in the database.

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