

Board of Directors

James F. Culbertson ..... President  
David C. Scull ..... Vice President  
Walter N. Dean ..... Secretary  
Carl S. Andren ..... Treasurer  
John D. Illgen ..... Past President  
John M. Beukers .... Exec. Administrator  
James O. Alexander  
David H. Amos  
Kjell O. Enerstad  
Bruce E. Hensel  
Robert W. Lilley  
Henry E. Marx  
Edward L. McGann  
Mark P. Morgenthaler  
Maurice J. Moroney  
William L. Polhemus  
James P. Van Etten

JB

# Wild Goose Association



*The International Loran  
Radionavigation Forum*

Minutes of the 95th Meeting of the Board of Directors January 22,  
1991 - Chandler, Arizona.

1. Call to Order

The 95th meeting of the Board of Directors was convened at 4:03 pm  
in the Jimmy Stewart room of the Sheraton San Marcos Hotel, in  
Chandler, Arizona, by President James Culbertson.

2. Attendance, Proxies and Statement of Quorum

The following Board members were in attendance:

Jim Culbertson, President  
Carl Andren, Treasurer  
Walt Dean, Secretary  
Dave Amos  
John Beukers  
Bob Lilley  
Mark Morgenthaler  
Mike Moroney  
Zeke Jackson, alternate for Dave Scull  
Mike Moroney, proxy for Ed McGann

Also attending:

Heywood Shirer

The secretary reported that the number of Directors present  
constituted a quorum, but did not equal the two-thirds required for  
ratification of amendments to the By-Laws.

The president stated that an agenda for the meeting had been  
distributed and would be followed.

3. Adoption of Minutes

Minutes of the 93rd meeting of the Board of Directors were accepted, but approval was deferred until next meeting because it had not been distributed in time. Acceptance moved by Beukers, seconded by Lilley.

Minutes of the 94th meeting of the Board of Directors were corrected to show Dave Olsen also present. Approval moved by Beukers, seconded by Morgenthaler.

4. Secretary's Report

The Executive Administrator's Report was taken as the significant part of the Secretary's Report. A copy is included as Exhibit 1. Acceptance moved by Andren, seconded by Amos.

5. Treasurer's Report

Carl Andren presented the Treasurer's Report, copy of which is included as Exhibit 2. Acceptance was moved by Morgenthaler, seconded by Lilley.

6. Executive Committee Report

The Executive Committee Report is included as Exhibit 3. Acceptance moved by Andren, seconded by Morgenthaler.

7. Standing Committee Reports

**Constitution**

The Constitution and By-Laws Committee Report is included as Exhibit 4. It contains a revision to the By-Laws that must be voted on by the Board. Since the necessary two-thirds majority was not present at the January Board meeting, it is necessary to vote by mail. A special ballot consisting of a copy of the Committee report with space for signature at the bottom, is enclosed. Please indicate your vote, sign and mail the ballot to the Secretary.

**Elections**

A status report of the Nomination and Election Committee is included as Exhibit 5. A slate of candidates will be ready for the April meeting.

**Conventions**

No report on the 1990 Convention was available.

Zeke Jackson presented the progress report on the 20th Convention, to be held September 30 to October 3, 1991, at the Fort Magruder Inn in Williamsburg, VA. A brochure was distributed, the first page of which is included as Exhibit 6. Dave Scull is the Technical Chairman, and six technical sessions are planned.

John Beukers reported on plans for the 1992 convention. A copy of his report is included as Exhibit 7.

## 8. Special Committee Reports

### **Journal**

A report on progress of the Journal is included as Exhibit 8.

### **Newsletter**

The report on progress of the Goose Gazette, submitted by Bob Lilley, is included as Exhibit 9.

### **Users Liaison**

Bruce Hensel's report on activities of the Users Liaison Committee, and a copy of his letter to other members of the committee, is provided as Exhibit 10.

All Committee reports received but not acted upon by the Board are referred to the Executive Committee for review and recommended Board action at its next meeting.

## 9. Old Business

### **Mid-Continent Dedication**

John Beukers' report on progress of the Mid-Continent Planning Committee is included as Exhibit 11.

### **WGA Computer Systems**

The system is still in the formative stage. The concept of a voice mailbox for use of the WGA will be investigated by Zeke Jackson.

### **WGA Audit**

The report of the Audit Committee was approved by the Board, moved by Morgenthaler, seconded by Lilley. A copy is included as Exhibit 12.

10. New Business

**European Loran-C Policy Group**

A report of a meeting of the Loran-C Policy Group held in Ottawa on January 8-10, 1991 was submitted by Kjell Enerstad, and is included as Exhibit 13.

**T. Hazeland Speech**

Director General Thomas A. Hazeland of Norway made a presentation at the Civil GPS Service Steering Committee meeting of January 16-18, 1991 clarifying the status of Loran-C in their thinking. A copy is included as Exhibit 14.

11. Next Meeting

The date of the next meeting was set for April 18, 1991, at NavCom Systems, Inc. 7203 Gateway Court, Manassas, VA. **This has been subsequently changed to April 16.**

The summer meeting is tentatively scheduled for July 18, the location on the East Coast to be determined.

12. Adjournment

The meeting was adjourned at 6:05 pm.

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Henry E. Marx  
Edward L. McGann  
Mark P. Morgenthaler  
Maurice J. Moroney  
William L. Polhemus  
James P. Van Etten

EXHIBIT 1-1



# Wild Goose Association

*The International Loran  
Radionavigation Forum*

## Executive Administrator's Report January 16, 1991

### 1. General Administration

The general administration of the Wild Goose Association continued with the objective of passing the function over to Nav Comm during the next few months. The computer system has not yet been purchased and is pending resolution of the financial outcome of the last convention.

### 2. Post-Convention Publicity

The attached press release was mailed to the media database. An article was written for IALA News, the latter being published in the 4th Quarter issue of the IALA Bulletin, copy also attached.

### 3. Dues Renewal

Dues renewal remittances were mailed to all 1990 paid up members and returns have started to come in. There have been approximately seventy-five returns to date. The dues renewal process was complicated by the lack of documentation from the convention registration process.

### 4. Proceedings

The Proceedings manuscripts were received from Bob Miller, 1990 Technical Chairman, were reviewed and then sent to OMNI Press of Madison, Wisconsin. A proof was returned by the printer and there was lengthy discussion regarding the quality. It should be noted that the price is less than half of what we paid last year. However, the Board should assess the quality to determine whether it is acceptable for the future.

A set of labels was prepared using the convention list and sent to the printer for drop shipment of the Proceedings. Copies of the Proceedings will be mailed out to pre-requests and new requests as they come in.

## 5. Preparation for Moving

Packing and file consolidation is underway and the various procedures and programs that have been used for the past three years are being refined.

## 6. Prospects

Manufacturers' cards continue to pour in providing a steady flow of new members and, in particular, a few seriously interested individuals and organizations.

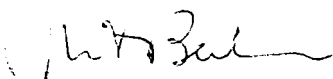
## 7. Orders

Packaging and sending out orders for Proceedings and videos as well as copying of Proceedings and Papers continues on a regular basis.

## 8. Telephone Contacts

Incoming telephone requests for information about Ioran continue to be substantial - so much so that quite often the writer is talking to one party and a second call comes in on the second line requiring a return call at WGA expense. This problem has been resolved by removing the drop down line so that callers will get a busy signal and will retry their call. This economy measure should be noted by the Board of Directors.

Respectfully submitted,



John M. Beukers  
Executive Administrator

Board of Directors

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Henry E. Marx  
Edward L. McGann  
Maurice J. Moroney  
William L. Polhemus  
James P. Van Etten  
Ron Wiener

EXHIBIT 2



# Wild Goose Association

Carl S. Andren  
2000 M St. NW, Suite 820  
Washington, DC 20036

202-331-9097 (Phone)  
202-296-5457 (Fax)

## Treasurer's Report

Balance from October 19, 1990 \$23,151.82

### Budget Transactions

#### Revenue

Dues-Renewal	60.00
Dues-New Members	1,295.00
Bibliographies	32.50
Proceedings	530.00
Journal Sales	90.00
Video Sales	174.50
<b>Total Revenue</b>	<b>\$2,182.00</b>

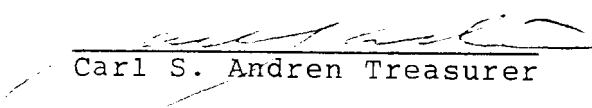
#### Expense

President Expenses	221.08
Secretary Expenses	1,869.00
Newsletter Expenses	475.40
Awards Expenses	336.81
Proceedings Expenses	1,950.00
Convention Expenses 1991	2,000.00
<b>Total Expense</b>	<b>\$6,852.29</b>

#### Income

(\$4,670.29)

Balance as of January 22, 1991 \$18,481.53

  
Carl S. Andren Treasurer

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EXHIBIT 3-1

# Wild Goose Association



*The International Loran  
Radionavigation Forum*

## Executive Committee Report

From: Jim Culbertson, President *J. Culbertson*  
To: WGA Board of Directors  
Subject: Report of meeting of the EXECUTIVE Committee

1. The EXECUTIVE Committee met over the telephone and exchanged information back and forth via FAX at various times since the last Board Meeting held on 25 October 1990.
2. Item from the 94th Board Meeting.

It is noted that the ballot for Constitutional Amendment changing the composition of the Executive Committee was not sent out with the dues notices as planned. This ballot should be included with the elections mailing. In the interim, the Executive Committee is operating as though the Past President is a member by special invitation.

3. Three issues were identified by the committee for resolution titled as follows:

WGA commitment in mid-continent dedication.

FANS issues and WGA action.

New PLC Special Committee.

Considerable background information was reviewed by the committee on each issue which can be made available on request. The following summarizes the issues and the Executive Committee's action or recommendations as appropriate.

- a. WGA commitment in mid-continent dedication.

### Background

John Beukers is representing WGA to small task force including DOT, FAA, USCG, and NASAO. He has attempted to help the FAA project office get this event



organized and unfortunately this has taken a lot of time away from his other WGA commitments including publishing the Journal and sorting out the procurement and the establishment of WGA's computer at NAVCOM Systems. John feels he **must** spend a lot of time on the project to keep things from crashing and to prevent WGA holding the bag or looking poorly.

The Executive Committee's concern is in two areas. The time John Beukers has to spend on the project - often, perhaps, doing chores someone else in the task force should be doing, and the financial commitment WGA is getting into with the plans to handle registration and setting up facilities and services. John Beukers is looking for WGA Board guidance and marching orders before the next mid-continent planning meeting being held in El Paso on 25 January 1991.

#### Recommended Action

The President, John Beukers and other members of the Executive Committee as are available, will meet with Bob Lilley and Paul Burket during the ION Technical meeting in Phoenix. During this meeting we will lay out a position for WGA to take regarding our commitment and approach for the planning meeting on 25 January. The President also will attend that planning meeting with John Beukers. If this meeting is held before the WGA Board meeting on 22 January, a suitable verbal report will be given. Otherwise, the Executive Committee will proceed to resolve this issue and advise the Board.

#### b. FANS Issues and WGA Action.

#### Background

For some time now we have been receiving documentation via Ed McGann concerning the total absence of Loran-C in the FANS documentation produced so far. Several attempts to get something started have aborted. Most recent documentation from Bill Law (Canada) and announcement of April meeting of the Tenth Air Navigation Conference has precipitated renewed efforts to bring Loran-C into the FANS arena.

#### Recommended Action

John Illgen has volunteered to spearhead WGA's efforts in FANS. He believes this matter fits nicely into several domestic and foreign business matters he is addressing plus he sees synergism with the European WGA technical symposium papers. He expects to be invited to attend the April meeting. Therefore, John Illgen's offer to lead WGA's efforts concerning FANS has been accepted.

c. New PLC Special Committee.

Background

Bob Miller (II Morrow) has proposed the formation of this new committee and to become its Chairman. The Executive Committee examined all documentation submitted by Miller and the recent FCC ruling that denies the Coast Guard PLC petition. Paul Arnstein in USCG Headquarters has been consulted and has agreed to serve on this committee. Several issues including policy setting and interference with USCG actions were addressed.

Action

A letter to Bob Miller has been prepared (attached) appointing him the Chairman of this new Special Committee. Executive Committee concerns for policy setting and any negotiations with the PLC utilities are expressed in this letter.

3. As stated earlier, all documentation concerning the above issues can be made available to any Board Member on request. The Executive Committee has taken the above action in the interest of reducing Board time spent on such matters.

January 17, 1990

To: Secretary, Wild Goose Association  
From: Jim Van Etten *Jim Van Etten*  
Subject: Status Report, Constitution and Bylaws Committee

The WGA Constitution and Bylaws Committee for 1990 has been formed. Membership is as follows:

Bill Garmany  
Vern Johnson  
Jim Van Etten, Chairman

As indicated at the Board of Directors meeting in Long Beach (94th meeting, Oct. 25, 1990), the Constitution amendments approved by the Board of Directors will be presented to the membership by official ballot, along with the ballot for 1991 election of Directors. The Constitution ballot will be presented to the Board of Directors for approval at the April Board meeting.

The Secretary (Walt Dean) has reported a defect in the By-laws change passed by the Board at the 94th meeting. The proposed annual fee of \$10.00 to be assessed against overseas corporate-sponsored members lacks an enforcement mechanism, since sponsored members don't pay their own dues. Walt suggests that, instead, the fee for the overseas corporate member be increased proportionately to compensate. The committee concurs. It is recommended that the Board revisit this change and revise Article VII, "Membership Fees and Dues" as follows:

Section 1a. Add:

(5) Overseas Corporate Class 1	\$ 435.00
(6) Overseas Corporate Class 2	\$ 320.00

Section 1b. Add:

(5) Overseas Corporate Class 1	\$ 400.00
(6) Overseas Corporate Class 2	\$ 300.00

cc: Jim Culbertson, President  
Committee members

January 17, 1990

To: Secretary, Wild Goose Association

From: Jim Van Eiten *Jim Van Eiten*

Subject: Status Report, Nominations and Election Committee

The WGA Nominations and Election Committee for 1990 has been formed. Membership is as follows:

John Beukers  
Bill Garmany  
Vern Johnson  
Jim Van Eiten, Chairman

Term of office for the following elected Directors expires at the end of 1991:

Walt Dean  
Ed McGann  
Dave Scull  
Jim Van Eiten

Also, the term of the following appointed Directors expires at the end of 1991

Dave Amos (for John Illgen)  
Kjell O. Enerstad  
Bruce Hensel  
Henry Marx

The committee will develop a slate in the February/March time period for President and for Directors; presentation to the President for Board of Director's action is planned before the April Board meeting.

cc: Jim Culbertson, President  
Committee members



**NAVCOM  
SYSTEMS, INC.**

*Engineering and  
Manufacturing Services*

Elijah "Zeke" Jackson  
President/CEO

Mary Jackson  
Executive Vice-President

EXHIBIT 6

**WILD GOOSE ASSOCIATION**

**1991 TECHNICAL SYMPOSIUM**

**PROGRESS REPORT**

**STATUS AS OF : January 16, 1991**

**PROGRESS SINCE OCTOBER 1990 BOARD MEETING:**

*We have signed a contract with the Fort Magruder Inn and Conference Center, Williamsburg, Virginia for the period September 30-October 3, 1991 to serve as the site for the 1991 Technical Symposium.*

*The Fort Magruder Inn has exceptional meeting facilities and deluxe accommodations and is in the immediate proximity of historic Williamsburg. A short distance away, at Kingsmill on the James, are two of the South's finest PGA tournament golf courses. Other attractions such as Jamestown, Busch Gardens and the Pottery Factory are a short distance away. This should be a beautiful time of the year in Tidewater Virginia.*

*We have negotiated a guaranteed room rate of \$78.00 single or double occupancy, and the U. S. Government per diem rate will be honored with appropriate identification. Some rooms will also be reserved for the weekend of September 28-29 and October 4, for those who want to come in early or stay late.*

*We are looking forward to a fine technical program and as has been customary with WGA Symposia, the opportunity for various recreational and social functions.*

*Respectfully submitted,  
NavCom Systems, Inc.*

**Elijah "Zeke" Jackson  
President/CEO**

**1991 Technical Symposium - General Chairman**

**Board of Directors**

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 James P. Van Etten

# Wild Goose Association



*The International Loran  
 Radionavigation Forum*

## 1992 Wild Goose Association Convention January 16, 1991

### 1. Convention Date

In order to minimize the cost, the Oxford Chamber of Commerce suggested the use of one of the Oxford colleges during their vacation. In order to take advantage of this, the convention would have to be held in the latter part of August. It is requested that the Board consider this change to the date as spelled out in the By-Laws.

### 2. Contact

Contact has been made with a venue finder to whom we have provided specifications and we are currently awaiting a reply.

### 3. Technical Chairmen

The Technical Chairman is John Illgen and the overseas technical co-chairman is David Last.

### 4. International Community

The international community will be involved. In a meeting at the WGA convention of international representatives, they indicated a general willingness to serve on the committee. The objective will be to have a member from each interested country. This is now particularly important because of the progress of the North-West European Planning Group.

Respectfully submitted,

John M. Beukers

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*The International Loran  
 Radionavigation Forum*

# Wild Goose Association

## Journal Report January 16, 1991

A meeting was held during the Wild Goose Association's convention with manufacturers and loran-oriented businesses. The subject of advertising to produce revenue for the Journal was discussed. It is quite evident that for loran business to consider advertising in the Journal, the Journal has to be effective in making sales. Mark Morgenthaler has been active in developing strategy to interest loran business. A second meeting is planned during the ION meeting in Phoenix, AZ.

A great deal of effort has been made by Mark Morgenthaler and this office to obtain contacts within loran business and to improve the loran business database.

Respectfully submitted,

John M. Beukers

Mr. Walter N. Dean  
Secretary, WGA  
8060 Sacajawea Way  
Wilsonville, OR 97070

To: WGA Secretary, with xc. to John Beukers

From: Robert W. Lilley, Chairman, Newsletter Committee

Date: December 20, 1990

Subj: Committee Report for Board of Directors' Meeting,  
Phoenix, AZ  
January 22, 1991

1. Special Fall Issue of the Goose Gazette

This issue went to the printer on December 18. It contains the full text of the FAA Loran-C Implementation Plan and a variety of information on the Mid-Continent Chains. The FAA Program Office expressed its appreciation to WGA for helping with the wide distribution of this Plan. FAA will distribute additional copies under the Gazette masthead, and have asked that we also distribute this special issue at the upcoming Dedication and User Forum at El Paso in May, 1991. There will be over 1,000 attendees; cost will be covered by a registration fee.

2. Regular Fall Issue of the Goose Gazette

This issue went to the printer on December 27. It contains the usual news items, with emphasis on the Long Beach Convention.

3. Newsletter Advertising

We have been running a 4-appearance ad for Electronic Devices, Inc., on the back page. EDI paid for this ad, reducing the net cost of the Gazette. I recently received a renewal for this ad for another year. An EDI representative told me "... the Goose Gazette ad was valuable for them in resolving sales..." He was very pleased.

In the Summer, 1990 Gazette, the artwork for the EDI ad was of low quality; I have contacted the printer and we will avoid this in the future. I offered an extra appearance of the ad to EDI as consideration for this artwork problem, and they appreciated the gesture (and accepted the extra advertising).



Henry Marx has placed a "business card" ad for Landfall Navigation, the first of these ads we have received.

#### 4. Critique

We received a letter (copy attached) from ex-member Arild Jensen, who indicated we were not serving his needs for information on loran with the Newsletter or with other products. I mention this item here to invite suggestions from the Directors if they feel changes in the Gazette are needed.

How about a "new products and techniques" section? I will need to find a contributing editor for thie "column," if it seems to be a good idea.

#### 5. Newsletter Committee makeup

The By-Laws require a committee of no fewer than two members. I have always considered that my committee is made up of the Directors, from whom I get most of my inputs for the Gazette.

# BFGoodrich

## Aerospace

EXHIBIT 10-1

Jet Electronics and Technology, Inc.

Date: January 11, 1991

From: Bruce Hensel  
Chairman, WGA Users Liaison Committee

To: Walt Dean  
Secretary, WGA

Subj: WGA User Liaison Committee Report

The User Liaison Committee has had limited activities since the 1990 convention. I only recently sent the enclosed letter to committee members in an effort to stimulate discussion and focus our efforts for the balance of 1991. Please provide copies of this letter to the WGA board of directors. Any feedback from the board concerning the usefulness of the issues discussed or the omission of important issues that the committee should address would be appreciated.

Unfortunately, I will not be able to attend the upcoming board meeting in Phoenix. I hereby appoint Jim Culbertson as my alternate for this meeting.

Please call me should you have any questions.

*Bruce Hensel*

# BF Goodrich

## Aerospace

Jet Electronics and Technology, Inc.

Date: January 4, 1991

From: Bruce Hensel

To: Bob Lilley  
Henry Marx  
Steve Wilson

Subj: WGA User Liaison Committee

Collectively, we comprise the subject committee. Bob has been designated to focus his efforts on liaison with the aviation community. Henry will work primarily with the maritime community. I've been assigned as committee chairman and will concentrate on users with various land applications. I've asked Steve Wilson, who works with me here at J.E.T., to help me in this area.

The WGA has tasked our committee with the following responsibilities:

Maintain active liaison with the loran user community and identify areas where WGA can provide technical or other assistance in the development, expansion, use, operation or maintenance of loran systems. Maintain close contact with the WGA Convention Technical Chairman and assist in identifying papers to be included in the technical symposium. Encourage WGA members to join your committee.

The intent of this letter is to stimulate discussion within our committee in an attempt to focus our efforts for the balance of the year. I've listed a few activities, keyed to the above responsibilities, that we could undertake. Being relatively new to the WGA, I'm sure that many of these suggestions have been discussed and possibly addressed in the past. On the other hand, perhaps there's a fresh idea or two. What I'm really looking for at this point is feedback from each of you, as well as your ideas on what activities we should be concentrating on. I also intend to provide a copy of this letter to the WGA board of directors and solicit feedback.

Here's some potential issues that we could address:

1. Although not directly stated in the above responsibilities, I feel one important task for us is to monitor the makeup of the loran user community; what applications is the system being used for and how many users are out there. Such information will enable the WGA to better represent these users in activities such as providing input to the Federal Radionavigation Plan.

To this end, I'd like to maintain a LORAN users database. A fairly large database would be useful in disseminating information if necessary and providing political support for LORAN. I

understand that John Beukers has a limited amount of this type of information. I'll volunteer to contact John and determine the best method for our committee to supplement this information, as well as the most practical method to maintain the database. Bob, I'll also send you a short article for the Goose Gazette, soliciting more members for our committee and input for the database.

It makes sense to me to concentrate on identifying organizations that represent hundreds or thousands of users first. For the land users, I intend to contact organizations such as the American Trucking Association and see if I can generate enough interest for them to join the WGA and represent the thousands of LORAN-equipped carriers on our highways. I'll also contact a couple of companies with 1,000 or more LORAN systems in their fleet, although I'm not sure how much interest I'll be able to generate. Many of the land users look at their LORAN receiver as a black box. We may have to rely on the system integrators to represent their end customers.

What are your thoughts for addressing the marine and aviation user communities?

2. The U. S. Coast Guard does a very good job of disseminating operational information on their loran chains by tasking COCOs to respond to inquiries from the user community and by allowing organizations to be added to the standard distribution for operational messages. As more foreign governments install loran chains and the United States turns over control of overseas stations to host nations, who will provide this type of information to the system users? Should the WGA take an active role in encouraging the establishment of such services?

3. To the best of my knowledge, the Central Pacific chain (4990) is still scheduled to be turned off in 1994. Is there a significant user community whose interests should be represented in this matter?

I realize that's it is not always easy to find time for WGA activities and appreciate your agreement to serve on this committee and your anticipated contributions. You can communicate with me via the following methods:

Work Phone: (616) 285-4396  
Fax: (616) 949-0165  
Home Phone: (616) 949-7277  
Address: J.E.T.  
5353 52nd SE  
Grand Rapids MI 49588-0873

Thanks again.

## Board of Directors

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Maurice J. Moroney  
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James P. Van Etten

EXHIBIT 11



# Wild Goose Association

*The International Loran  
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## Mid-Continent Celebration Report January 16, 1991

A planning meeting for the Mid-Continent Celebration was attended in El Paso, Texas, on November 14th and 15th, 1990. A final report on this meeting was provided by Ohio University under contract to the FAA. The WGA contributed to the report along with Paul Burket representing NASAO, and Kent Brooks and Bob Lilley were responsible for producing the report. The WGA has become very involved in the celebration and the Board should be aware of this and appreciate the effort required to bring this off.

Respectfully submitted,

John M. Beukers  
WGA Mid-Continent Planning Representative

James F. Culbertson ..... President  
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James P. Van Etten  
Ron Wiener



# Wild Goose Association

Carl S. Andren  
2000 M St. NW, Suite 820  
Washington, DC 20036

202-331-9097 (Phone)  
202-296-5457 (Fax)

January 18, 1990

**This is to certify that the Audit Committee conducted an audit of the Financial  
Records for Fiscal Year 1990.**

**There were no discrepancies noted except for the recording of interest income  
for the Fiscal year.**

**David Carter**

**Audit Committee Chairman**

Report from meeting in the LORAN-C Policy Group

I thought you would be interested in the results from the latest meeting of the LORAN-C Policy Group so here is a short report covering the main issues.

1. The meeting was held in Ottawa 8 to 10 January, host: Canadian Coast Guard.
2. The Netherlands represented by the Directorate-General of Transport, being representative of the Ministry of Transport, is prepared in principle to cooperate into the LORAN-C project to meet land navigation requirements and are requesting re-entry into the LORAN-C Policy Group. Two Dutch representatives participated as observers at the Ottawa meeting. Final Dutch position will have to be confirmed within the next 4 to 5 weeks.
3. Denmark is - subject to political confirmation - prepared to join the International Agreement on special terms which makes it necessary to slightly amend presently agreed text. Denmark will be owner of LORAN-C installations on Danish territory, but will not share investments costs. Denmark will, however, pay a small share of the O&M costs.
4. Presently approved configuration (as presented at the WGA conference October 90, Long Beach) will in principle be kept. Small alterations might be necessary to accomodate the Netherlands.
5. The provisional Co-ordinating Agency established within NODECA staff, to be further developed and start preparation for realizing the project as if it was approved.
6. Signing of the Agreement is expected within the next few months's if presently agreed arrangements are politically approved by the Netherlands and Denmark.

Ratification of the Agreement by Parliaments will be necessary in some member countries, among them Norway.

CIVIL GPS SERVICE (CGS) STEERING COMMITTEE MEETING, JAN 16-18, 1991.  
DEPUTY DIRECTOR GENERAL THOMAS A. HAZELAND, NORWAY.

In way of introduction, I would like to remind you of IALA's role in encouraging the use of Loran C world wide as an answer to the requirement for an independant terrestrial radionavigation system stated by a number of nations. This requirement is believed to endure until GPS or some other satellite based system can be given status as international system, with the legal implications this involves, and the present technical problems in way of integrity and availability are solved. There are also users that do not feel happy by being dependent on one system only - however good that system might be.

You may recall that IALA convened a meeting in London March 1987 to discuss and motivate Loran C in North West Europe. This meeting contributed to the establishment of Loran C Policy Group for North West Europe and the North Atlantic.

I would like to mention two major points from the meeting just as relevant today as in 1987:

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

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."

GPS AND GLONASS

The maritime aspects of radionavigation are considered by IMO in Resolution A. 666 (16) where GPS and Glonass are declared suitable for world-wide navigation and available to international shipping. However, to be adopted as radionavigation system by IMO a number of conditions will have to be satisfied. One is ensurance of continued provision of signals.

As far as I can understand, this requires a legal commitment by the owner of the system. To the best of my knowledge, this has not been offered by either the USA or by the Soviet Union. It would be of the greatest importance to be informed first and foremost of the US Policy in this regard. Of course even if GPS is not adopted by IMO it seems obvious that many vessels will use it, but possibly not as a stand alone system.

For air and land navigation there are also limitations in regard to the use of GPS as a single means aid. These limitations are basically insufficient integrity and availability for air use and the shadowing effect of high buildings and natural obstacles hindering free sight to

the necessary number of satellites for land navigation. It would be of great interest to know what measures could overcome these difficulties, if such measures are under consideration, and the time perspective. It would also be of interest to have FAA's views on the aeronautical aspects in the short and long term.

Good, reliable answers to these questions seem to be scarce. I am very concerned that we should improve our knowledge and understanding of the system so that we can take maximum advantage from the use of GPS. This explains our strong commitment and participation in the activities of this group.

DIFFERENTIAL GPS.

There are various proposals and tests in progress in Europe to establish the criteria for Differential GPS services.

There remains the questions, however, whether this type of service is for:

- a) Radio navigation purposes; or
- b) Radio location purposes (i.e: traffic for sea, land and air)
- c) Radio position purpose (i.e: surveillance).
- d) perhaps all these purposes

It seems unlikely that vessels will fit expensive on-board equipment for general navigation, but on the other hand it could be beneficial for Vessel Traffic Systems. It is more likely to be used for special survey-type purposes such as buoy-positioning, pipe laying etc. But who will provide and pay for the service?

The answer to this question is of vital importance.

To conclude I would like to state that Norway for reasons explained in the minutes of the last meeting - like the United States - will see a requirement for terrestrial radionavigation systems well into the next century. We do however realize the potential of the Navstar System and will make use of it particularly in areas where it is superior to other available systems. That is why we support and will continue to support the activities of this Committee.

Finally I am pleased to report that substantial progress was made at a meeting of the Loran C Policy Group in Ottawa earlier this month in connection with the establishment of a North West European Loran C system. The signature of a formal International Agreement is expected before July this year and project planning is already well under way.

Thank you, Mr. Chairman.



\*\*\*\*\* NOTE THIS IS A SPECIAL BALLOT TO BE RETURNED \*\*\*\*\*  
January 17, 1990

To: Secretary, Wild Goose Association

From: Jim Van Etten *Jim Van Etten*

Subject: Status Report, Constitution and Bylaws Committee

The WGA Constitution and Bylaws Committee for 1990 has been formed. Membership is as follows:

Bill Garmany  
Vern Johnson  
Jim Van Etten, Chairman

As indicated at the Board of Directors meeting in Long Beach (94th meeting, Oct. 25, 1990), the Constitution amendments approved by the Board of Directors will be presented to the membership by official ballot, along with the ballot for 1991 election of Directors. The Constitution ballot will be presented to the Board of Directors for approval at the April Board meeting.

The Secretary (Walt Dean) has reported a defect in the By-laws change passed by the Board at the 94th meeting. The proposed annual fee of \$10.00 to be assessed against overseas corporate-sponsored members lacks an enforcement mechanism, since sponsored members don't pay their own dues. Walt suggests that, instead, the fee for the overseas corporate member be increased proportionately to compensate. The committee concurs. It is recommended that the Board revisit this change and revise Article VII, "Membership Fees and Dues" as follows:

Section 1a. Add:

(5) Overseas Corporate Class 1	\$ 435.00
(6) Overseas Corporate Class 2	\$ 320.00

Section 1b. Add:

(5) Overseas Corporate Class 1	\$ 400.00
(6) Overseas Corporate Class 2	\$ 300.00

\*\* VOTE ON APPROVAL OF ABOVE CHANGE \*\*

I approve the above change to the WGA By-Laws ( )YES ( )NO

Print name \_\_\_\_\_ Signature \_\_\_\_\_

Mail to: Walt Dean, Secretary  
8060 Sacajawea Way  
Wilsonville, OR 97070