BOARD OF DIRECTORS

J. ALEXANDER B. AMBROSENO J. M. BEUKERS
J. F. CULBERTSON
W. N. DEAN
L. D. HIGGINBOTHAM
J. D. ILLGEN

V. L. JOHNSON J. P. VAN ETTEN V. I. WEIHE

A.W.Marchal





WILD GOOSE ASSOCIATION

27 July 1984

MINUTES OF THE 64th and 65th MEETING OF THE BOARD OF DIRECTORS

The 64th meeting of the Board was held as scheduled Friday, 27 July 1984, in Conference Room 8440, NASSIF Building, 400 Seventh Street, SW, Washington, DC.

The following attended:

Dir	<u>ectors</u>	Members	
E. L. L. F. D. A. V. L.	Andren McGann Fehlner Carter Johnson Weihe	D. Scull L. Sartin	

A proxy assignment, Exhibit 1, from J. P. Van Etten naming V. L. Johnson to be his alternate was in the hands of the Secretary before the meeting was called to order. The number of Directors and Alternates present met the requirement for a quorum. All members of the Executive Committee were present. The agenda is presented as Exhibit 2.

Item 1 - Call to Order

The meeting was called to order by President Carl Andren at 0951, 27 July 1984.

Item 2 - Secretary's Report

Andren reviewed his notes regarding the minutes of the 63rd meeting. On a motion by McGann seconded by Carter, which carried, approval was held in abeyance pending formal distribution of the minutes. The minutes of the 62nd meeting were approved at the 63rd.

Fehlner reported that the original tax exempt letter from the IRS had been found. A copy was given to Carter for his use in assessing our current standing with the IRS.

Fehlner reported on the volume of general correspondence handled by the Secretary -- 206 items (half in, half out) since I Jan 1984 varying from orders for as many as 25 copies of proceedings and journals to requests for applications for membership.

Fehlner recommended that some action should be taken to organize official calenders of critical events for use by Directors, Officers and Chairmen. One should be a general calender which lists all events that are related to deadlines as defined by the By-Laws or effective Board Directives. As many other calenders should be developed, as subsets of the general calander, as are required for the specific needs of individual Chairmen and Officers. There was general concurrence in this recommendation. Andren will initiate action to accomplish.

Fehlner recommended that the minutes of previous meetings should be reviewed for the purpose of listing Board Directives in effect. These should be reviewed by the Board and some action taken with respect to each i.e. cancel or re-affirm. The reviewed list should from then on be kept current. The members present concurred in this recommendation. Andren will initiate action to accomplish.

A list of organization members with associated data was passed out to all present at the request of the President. See Exhibit 3.

Item 3 - Treasurer's Report

Carter presented the treasurer's report. After discussion of the report, McGann moved for acceptance. Johnson seconded. Motion carried. See Exhibit 4.

At this point a brief recess was taken during which Scull briefed the Board on the latest loran news at the FAA. See Exhibit 5.

Item 4 - Standing Committee Reports

- a. Awards No report from the Chairman. Andren suggested the President's award go to the Bill Polhemus "team" re loran support of aviation. Weihe moved to accept this suggestion. Johnson seconded. Motion carried.
- b. Constitution and By-Laws Fehlner recommended that adoption of the following By-Laws change would simplify our bookkeeping:

Incorporate as a continuation of Article VII Section 2 "Following an increase in annual dues, all back dues shall be paid at the new rate."

Adoption to be considered under new business.

c. Convention - 1983 - The remaining business is to distribute the 1983 Proceedings. Mailing is estimated for September.

Convention - 1984 - Sartin briefed the plans for the 1984 Convention starting 31 October at the Westin Hotel in Boston. Many details were discussed following which the following pricing was agreed on:

Registration	Before 23 Oct.	After
Members	\$50.	\$60.
Non Members	65.	75.
Luncheons	15.	
Banquet	35.	

It was also agreed that there will be a Membership Meeting immediately after lunch on Thursday and topics for discussion will be proposed in the mailing to the members. A Board Meeting will be held on Wednesday at 1730 at the Convention. Fehlner raised an issue regarding timely publication of the Proceedings of the Technical Symposium; action to be taken under new business.

- d. Historical no report
- e. Journal 84 Ambroseno has already obtained advertisements and has technical articles under consideration.
- f. Membership Fehlner reported that the two mailings for 1984 dues resulted in dues paid by 369 members. The actual number of members in good standing is slightly larger due to life membership and a few members who have paid in advance. Following the 1984 purge of the membership role of all members more than 2 years in arrears, (revoked membership) the number of members with mailable addresses is 522. Slightly more than 70% of these are in good standing.
- g. Newsletter Illgen relayed a message stating that a newsletter is in preparation, and he wished to be relieved of Chairmanship.
- h. Nomination and Election The special board action noted in the agenda was deferred to New Business.
- i. Congressional McGann stated that an effort would be made in the Fall to support the Coast Guard and the FAA in their loran efforts.

Item 5 - Special Committee Reports - none

Item 6 - New Business

a. 1985 Convention site

Illgen recommended Santa Barbara, and if chosen by the Board he would volunteer to chair it.

Carter moved to hold the 1985 Convention at Santa Barbara contingent on a firm agreement with Illgen to chair it. McGann seconded. Motion carried.

1986 Convention - Andren requested nominations for the location of the 1986 convention. The following were suggested:

Portland, OR New Orleans, LA Canada Annapolis, MD

NOTE: The Board requests consideration of this item by all Board Members and prepare for decision at 1984 convention.

- b. By-Law Change Fehlner moved to adopt the change recommended during Secretary's Report. McGann seconded. Motion carried.
- c. Fehlner moved to adopt the resolution presented at Exhibit 7. Carter seconded. Motion carried. Note: Technical Chairman must take action item on Proceedings.
- d. Special Board Action re 1984 Nomination and Election After 3 1/2 hours of deliberation, it was agreed that a solution to the problems stemming from the 1984 election procedures could not be resolved in the time remaining.

Item 7 - Adjournment

McGann moved for adjournment at 1530 to a second meeting of the Board scheduled for 6 August 1984 at 0930 at the same location. Carter seconded. Motion carried.

230 Rutgers Place Nutley, NJ 07110 July 26, 1984

Secretary, Wild Goose Association:

Subject: WGA Board of Directors Meeting 7/27/84 Proxy Assignment

In accordance with Article II, Section 4 of the Bylaws and in as much as I will be unable to attend the Subject WGA Board of Directors meeting in Washington, D.C. July 27, 1984, I designate Mr. Vernon Johnson to serve as my proxy.

James VanEtten

Member Board of Directors

BOARD OF DIRECTORS

C. S. ANDREN President E. L. McGANN Vice President L. F. FEHLNER Secretary D. CARTER Treasurer

J. ALEXANDER B. AMBROSENO

J. M. BEUKERS J. F. CULBERTSON

W. N. DEAN L. D. HIGGINBOTHAM

D. ILLGEN V. L. JOHNSON P. VAN ETTEN

V. I. WEIHE

Exhibit 2



WILD GOOSE ASSOCIATION

July 20. 1984

TO:

WGA Directors and Committee Chairmen

FROM:

WGA President

SUBJECT: 64th Meeting of the Board of Directors

The next Board of Directors meeting will be held Friday, July 27,1984 at 9:30 AM in Conference Room 8440, Nassif Building, 400 Seventh Street, S.W., Washington, D.C.

AGENDA

- 1. Call to Order
- 2. Secretary's Report
- 3. Treasurer's Report
- 4. Standing Committee Reports

Frank a. Awards Johnson b. Constitution

c. Convention

1. 1983 Proceedings Schellhase 2. 1984 Convention Sartin

d. Historical

e. Journal 1984

Dean Ambroseno f. Membership

Fehlner

g. Newsletter

Illgen

h. Nominating and Election

Dean

- * Special Board Action
 - 1. Discussion of the 1984 Election Proceedures.
 - 2. Additions, Deletions, Approval to the slate for 1984.
 - 3. Validation of the 1984 Election Results
- i. Congressional

McGann

- 5. Special Committee Reports
- 6. New Business
 - 1. 1985 Convention Site
- 7. Establish next meeting date.

Exhibit 3

24 JULY 1984 WGA ORGANIZATION MEMBERSHIP LIST PAGE 1 ACADEMY BIB. SERVICE Sponsored Members: Attn: 1. P. O. BOX 98182 2. TSIM SHA TSUI POST OFFICE 3. KOWLOON HONG KONG 4. Specialty: 5. **EDUCATION** Phone: 820564 7. Dues yr.: 1984 Mtype: REGULAR 8. Index: ACADEMY Sort: N 9. Class: ASSOCIATE ACCESSIONS DEPT, BRITISH LIBRARY Sponsored Members: Attn:MR. A. YOUNG, LENDING DIV. 1. NOTE: Membership dues to be BOSTON SPA, WETHERBY 2. Billed to STOBART & SONS LTD. YDRKSHIRE LS23 7BQ 3. **ENGLAND** 4. Specialty: 5. LIBRARY Phone: 7. Dues yr.: 1984 Mtype: REGULAR Index: ACCESSI Sort: M 9. Class: ASSOCIATE 10. COMMUNICATION SECURITY ESTB. Sponsored Members: Attn: J. R. ALBERT 1. 101 COLONEL BY DRIVE 2. OTTAWA, ONTARIO K1A OK2 ⊸ 3. CANADA 4. Specialty: 5. DEPT. OF NAT. DEFENSE LIBRARY 6. Phone: 613/998-4046 7. Dues yr.: 1985 Mtype: REGULAR 8. Index: COMMUNI Sort: N 9. Class: ASSOCIATE 10. ENGINEERING SOCIETIES LIBRARY Sponsored Members: Attn:DIRECTOR OF ACQUISITIONS 1. NOTE: Send all publications for 345 EAST 47th STREET 2. archiving at no cost to NEW YORK NY 10017 3. library 4. Specialty: 5. REPOSITORY FOR WGA PUBS 6. Phone: 212/705-7608 7. Dues yr.: 2099 Mtype: REGULAR 8.

9.

Index: ENGINEE Sort: X

Class: ASSOCIATE

24 JULY 1984

WGA ORGANIZATION MEMBERSHIP LIST PAGE 2

15apr84====================================	MEMBERSHIP LIST PAGE 2 ===================================
LITTON SYSTEMS, INC. Attn:J. N. MOYER MS/67 5500 CANOGA AVE. WOODLAND HILLS CA 91635	Sponsored Members: 1. 2. 3. 4.
Specialty: GUIDANCE/CONTROL SYSTEMS Phone:818/715-2677 Dues yr.: 1984 Mtype: REGULAR Index: LITTONS Sort: Y Class: ASSOCIATE	5. 6. 7.
METEOROLOGICAL OFFICE Attn:NAT. METEOROLOGICAL OFFICE LONDON ROAD BRACKNELL BERKSHIRE RG12 2SZ ENGLAND Specialty: WEATHER AND CLIMATE Phone: (0344) 420242 Dues yr.: 1984 Mtype: REGULAR Index: METEORO Sort: N Class: ASSOCIATE	Sponsored Members: 1. 2. 3. 4. 5. 6. 7. 8. 9.
POLYSPRING COMPANY Attn:PERIODICALS DEPT. P. O. BOX 54 GENERAL POST OFFICE HONG KONG Specialty: PERIODICAL LIBRARY Phone:5-420245 Dues yr.: 1984 Mtype: REGULAR Index: POLYSPR Sort: N Class: ASSOCIATE	Sponsored Members: 1. NOTE:Standing order for 3 extra 2. copies of publications 3. wich are to be invoiced. 4. 5. 6. 7. 8. 9. 10.

24 JULY 1984

WGA ORGANIZATION MEMBERSHIP LIST PAGE 3

WGA ORGANIZATION	MEMBERSHIP LIST PAGE 3
15apr84====================================	
SANDIA NATIONAL LABS.	Sponsored Members:
Attn:TECHNICAL LIBRARY	1.
PERIODICALS-3141	2.
ALBUQUERQUE NM 87185	3.
	4.
Specialty:	5.
	<u>6.</u>
Phone: 505/844-5461	7.
Dues yr.: 1984 Mtype: REGULAR	
Index: SANDIAN Sort: Y	9.
	10.
CTODACT & CON LTD	
STOBART % SON LTD.	Sponsored Members:
Attn:	1. AGENT FOR:
67/73 WORSHIP STREET	2. ACCESSIONS DEPT, BRITISH LIBRARY
LONDON EC2A ZEL	3. ATTN: MR. A. YOUNG, LENDING DIV.
ENGLAND	4. BOSTON SPA, WETHERBY
Specialty:	5. YORKSHIRE LS23 7BQ ENGLAND
INTERNATIONAL SUBSCRIPTION AGENT	
Phone:01-247 0501	7. NOTE: Do not send pubs to
Dues yr.: 1984 Mtype: REGULAR	8. STOBART
Index: STOBART Sort: N	9.
Class: ASSOCIATE	10.
ANALYTICAL EVETEME ENG. CODS	Considered Manhaum
ANALYTICAL SYSTEMS ENG. CORP. Attn:LARRY SARTIN	aponsored members:
5 OLD CONCORD RD.	1. LARRY SARTIN 2. ROBERT OLIPHANT
BURLINGTON MA 01803	3. MICHEAL MACIOLEK
BOVETIABLON WH OLDOS	4. BILL EMMETT
Pi-14	5. GEORGE LELAND
Specialty:	
NAVIGATION SYSTEMS	6. BILL STUMPF
Phone: 617/272-7910	7. GUERLY GEORGES
Dues yr.: 1984 Mtype: REGULAR	8. JIM ARNOLD
Index: ANALYTI Sort: Y	9. LOIS CAMPBELL
Class: CORPORATE1	10. JERRY WALKER
ITT AVIONICS DIVISION	Sponsored Members:
Attn:HARRY M. RAVEN	1.
	2.
500 WASHINGTON AVE.	
NUTLEY NJ 07110	3.
	4.
Specialty:	5.
AVIONICS	<u>6.</u>
Phone: 201/284-2872	7.
Dues yr.: 1984 Mtype: REGULAR	8.
Index: ITTAVIO Sort: Y	9.
Class: CORPORATE1	10.

24 JULY 1984

WGA ORGANIZATION MEMBERSHIP LIST PAGE 4

15anr84=======================	======================================
FEDERAL AVIATION ADMINISTRATION	
Attn:NEAL BLAKE ADL-2A	1. NEAL BLAKE ADL-2A
7 & D STREETS SW	2. JERRY BRADLEY AES-310
WASHINGTON DC 20111	3. TONY BUIGE AES-300
	4. GEORGE QUINN APM-400
Specialty:	5. FLOYD SWITZER APM-420
	6.
Phone:	7.
Dues yr.: 1983 Mtype: REGULAR	8.
Index: DOT/FAA Sort: Y	7.
Class: CORPORATE2	10.
KING MARINE RADIO CORP.	Sponsored Members:
Attn:WILLIAM GREENLEAF	1.
8997 131st PLACE N	2.
LARGO FL 33543	3.
	4.
Specialty:	5.
NAVIGATION & COMMUNICATION	6 .
Phone:	7.
Dues yr.: 1984 Mtype: REGULAR	
Index: KINGMAR Sort: Y	9 <u>.</u>
	10.

BOARD OF DIRECTORS

C. S. ANDREN President E. L. McGANN . . . Vice President L. F. FEHLNER Secretary D. CARTER Treasurer

J. ALEXANDER B. AMBROSENO

B. AMBRUSENO
J. M. BEUKERS
J. F. CULBERTSON
W. N. DEAN
L. D. HIGGINBOTHAM

J. D. ILLGEN V. L. JOHNSON

P. VAN ETTEN V. I. WEIHE

Exhibit 4



WILD GOOSE ASSOCIATION

TREASURER'S REPORT JULY 27, 1984

Previous Balance

\$8001.25

\$8863.72

TRANSACTIONS

Receipts

Dues	\$6301.57	
Journals/Proveedings/Pins	553.00	
	\$6854.57	\$14855.82

Expenditures		
Secretary Expenses	\$743.67	
Awards	256.31	
Computer Store Balance	33.21	
PO Box Rental (MA)	26.00	
UPS Charges	42.80	
Check Charge(German check)	3.00	
Check Charge(London check)	10.50	
1984 Convention postage/supplies(Tech)	100.00	
1984 Convention Advance(Chairman)	500.00	
1983 Journal expenses	109.94	
1983 Journal postage	686.97	
1983 Journal Printing	3479.70	
-	\$5992.10	

WGA Account Balance as of July 27, 1984 \$8863.72

Note: 1983 Journal Ads Accounts Receivable is \$6950.00. The total 1983 Journal Ads sold for \$7450.00 The total 1983 Journal Expenses were \$4276.61 So the total 1983 Journal net profit was \$3173.39 (plus future sales of remaining copies; Thanks to the efforts of Journal Chairman B. Ambroseno.

Submitted:

Approved:

Date ⊋

Board of Directors

Treasurer

President

U.S. Department of Transportation Exhibit 5

800 Independence Ave., S W Washington, D.C. 20591

Federal Aviation Administration

9 1984

Mr. Paul E. Burket Aeronautics Administrator State of Oregon Aeronautics Division 3040 25th Street, SE Salem, Oregon 97310

Dear Mr. Burket:

Thank you for your best wishes on my appointment as Administrator of the Federal Aviation Administration and for your concerns regarding long range navigation (LORAN-C).

LORAN-C is a very useful aviation navigation supplement to Very High Frequency Omni-Directional Radio Range/Distance Measuring Equipment (VOR/DME) for low altitude, offshore, and direct flight navigation. Growth in the number of LORAN-C aviation users over the past 2 years has been substantial. As a result of this, the Federal Aviation Administration (FAA) is about to issue a new advisory circular on the use of LORAN-C in the National Airspace System. Certain applications of LORANI-C have been approved for Instrument Flight Rules (IFR) en route navigation where there is adequate coverage.

There are many activities underway involving the potential uses of LORAN-C by the aviation community. Studies are presently being conducted to determine the applications of LORAN-C for nonprecision approaches; a National Aviation Standard is being prepared for LORAN-C; the Radio Technical Commission for Aeronautics (RTCA) and the FAA, through RTCA Special Committee 137, are working on Minimum Operational Performance Standards for LORAN-C avionics.

There are still significant issues, however, about expanding the use of LORAN-C by civil aviation. These issues include: (1) Is LORAN-C suitable for all nonprecision approaches? There is enough data to show that the LORAN-C position can vary with the seasons of the year. This variation is large enough at many sites to make LORAN-C unsafe for nonprecision approaches. Tests are underway to determine if this seasonal variation can be predicted and correction information incorporated on charts. (2) Should the mid-continent gap be filled? Currently, using most of the LORAN-C sets available today, there is a large mid-continent area where LORAN-C operation is unsatisfactory. (3) A related concern regarding LORAM-C expansion is the advent of the Navigation System for Timing and Ranging (NAVSTAR) Global Positioning System (GPS), a Department of Defense satellite navigation system. If GPS is operational in 1987, will there be a need for LORAN-C? This issue is being addressed by the Joint Department



RECEIVED

JUL 16 1984

Edward Warren: First American Aloft

PB ____

RR ____

CL ----

JH

NS

RC .___

AP FILE

OTHER

<u>AERONAUTICS</u>

of Defense/Department of Transportation group preparing the Federal Radionavigation Plan. (4) Another question pertains to the use of LORAN-C as a sole means of aviation navigation. If a large number of IFR aircraft use LORAN-C without any other radionavigation aid (e.g., VOR) and a LORAN-C ground station fails, all of the aircraft in the coverage area of that station will need radar vectors from air traffic control (ATC) facilities. Such a situation could easily overload the ATC system. Resolution of the sole means of navigation problems would require dual LORAN-C coverage—a very expensive project.

While all of these and other issues were being investigated by the FAA and United States Coast Guard in the preparation of the National Aviation Standard for LORAN-C, the FAA position was somewhat restrained by virtue of the large public investment in the VOR/DME network.

I have now directed that FAA take an advocacy position for expanding the coverage and utility of LORAN-C for aviation. For this reason, I believe that you will find FAA more aggressive in pursuing closure of "the mid-continent gap" and related LORAN-C issues.

Sincerely,

Donald D. Engen

Administrator



13th ANNUAL WILD GOOSE ASSOCIATION LORAN-C TECHNICAL SYMPOSIUM IN BOSTON (31 OCTOBER — 2 NOVEMBER 1984)

Larry Sartin, ASEC's Navigation and Hardware Development Programs Manager, is the Convention Chairman for this years Technical Symposium. The theme of this years conference is 'The Expanding World of Loran-C', and will be held at the new Westin Hotel at Copley Place, Boston, MA.

Along with the many technical papers presented, and exciting Guest Speakers, there will be a Loran-C Receiver Manufacturers Display adjacent to the Hospitality Suite so the equipments can get greater visibility.

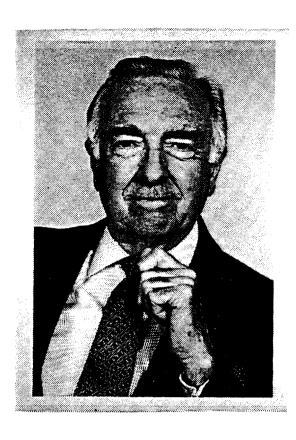
Several noteworthy Guest Speakers will include:

- Mr. Walter Cronkite, former CBS news anchorman and a notable Loran-C user;
- RADM Alfred P. Manning, Jr., USCG, Chief of the USCG Office of Command, Control and Communications;
- RADM Theodore J. Wojnar, USCG, Chief of the USCG Office of Navigation; and
- Mr. Neal Blake, Deputy Associate Administrator for Engineering, Federal Aviation Administration (FAA).

There will be a Golf Tournament at the world famous International Golf Club at Boston, MA. Incidentally, the number 5 green is in the Guiness Book of Records as the worlds largest green.

We haven't forgotten the ladies. There will be a tour of Historic Boston available and the worlds most unique shopping area with over 65 different shops, boutiques, restraunts and cinemas connected to the lobby of the Westin Hotel by a glass covered walkway.

Parties interested in attending should contact Larry Sartin for further information.









Should you desire direct billing, a written request must be forwarded to the Westin Hotel, Copley Place Boston Credit Manager 14 days in advance of your arrival.

If you intend to settle your account with cash, an advance deposit to cover room and tax for your length of stay is required upon check in.

PLEASE DON'T FORGET —
MAKE CHECK OR MONEY ORDER PAYABLE
TO THE WESTIN HOTEL. COPLEY PLACE BOSTON
PLEASE DO NOT SEND CURRENCY.

The 13th Annual WGA Technical Symposium October 31—November 2, 1984

NAME.			cor	MPANY	
ADDRE	SS				
CITY/S1	ATE/ZIP				PHONE ()
SHARII	NG ROOM WITH				Please indicate if room will be shared by a third adult; (over age 18) if so an additional charge will prevail.
		PL	EASE TYPE	OR PRINT	
credit	rations will be held unt card.	il 6 PM unles:	s guara	anteed by	on date
Cara	Ŧ			ZXPII a Li	
billed t	stand that I am Iiable f hrough my credit card	in the event th	nat I do	and tax v not arriv	which will be deducted from my deposit, on e on the date indicated, or cancel 48 hours
billed t	stand that I am liable f hrough my credit card arrival. Signa	in the event that uture	nat I do	and tax v not arriv	which will be deducted from my deposit, or
billed t	stand that I am Iiable f hrough my credit card	in the event thaturee	nat I do	and tax v not arriv	which will be deducted from my deposit, on e on the date indicated, or cancel 48 hours
billed to prior to	stand that I am liable f hrough my credit card arrival. Signa Please circle preferred rat	in the event thaturee below:	nat I do	and tax v	which will be deducted from my deposit, one on the date indicated, or cancel 48 hours Arrival Date
billed to prior to	stand that I am liable for hrough my credit card parrival. Please circle preferred rate Accommodations	in the event thaturee below:	nat I do	and tax v	which will be deducted from my deposit, one on the date indicated, or cancel 48 hours Arrival Date

If rate requested is not available, nearest available rate will be assigned. U.S. (800) 228-3000

Canada (800) 268-8383

The Westin Hotel. Copley Place Boston (617) 262-9600

Rates apply to all categories



Exhibit 7

Resolution Regarding Annual Proceedings

Whereas:

The Proceedings of the Technical Symposium is typically distributed so late as to lose much of its currency, and

Whereas:

The tangible benefits to members derived from membership are minimal,

Therefore be it resolved that:

- 1. No more than 1 month shall be allowed for authors to submit papers following the Symposium.
- 2. Distribution of the Proceeding shall be made no later than 3 months following the Symposium.
- 3. Distribution of the Proceedings shall be made to all Members in good standing at the time of the Symposium.
- 4. The Convention admission for Members in good standing shall be less than that for Non-members by the amount of the current annual dues plus initiation fee.