WILD GOOSE ASSOCIATION

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Minutes of the Thirty-third meeting of the Board of Directors held 8 August 1978 at the U.S. Coast Guard Headquarters, Washington, D.C.

The following were in attendance:

Walter Dean Leo Fehlner

Vern Johnson Lloyd Higginbotham

Absent from the meeting were:

Ray Abraczinskas John Beukers Ed McGann Hank Hilbun Jim Van Etten

Arthur Pankoff William Polhemus Patrick Reynolds Bahar Uttam

Directors-Elect Carl Andren and Vernon Weihe attended.

- 1. The meeting was brought to order by Vice-President Leo Fehlner at 9:50 a.m.
- 2. The minutes of the 32nd meeting of the Board of Directors was adopted, subject to the following corrections:

Item 4 (d) correct to Brig. Gen. Foster and Bill Marchal.

- 3. a) President's Report Leo Fehlner noted receipt of announcement of DOT's Conference on Navigation in Transportation Sept 19-21 at TSC, Cambridge, Mass. On 23 June Leo appointed Lewis Petersen chairman of the Loran-C Certification Committee to replace R. Pasciuti. Petersen is active on a contract for certification of receivers for USCG. On 23 June, Leo appointed Frank Cassidy of Megapulse chairman of the Audit Committee. John Beukers has written letters inviting Foster, Manning and Watkins to speak at the convention.
 - b) Secretary's Report none submitted.
 - c) Treasurer's Report none submitted.
 - d) Executive Committee Report none submitted.

- 4. a) Audit Committee Report none submitted.
 - b) Awards Committee Report Fehlner has written to the committee requesting nominations for the various awards. So far none have been received. It was suggested that a mechanism be established to collect Loran papers for review for the papers award.
 - c) Constitution Committee written report Attachment 1.
 - d) Convention Committee written report Attachment 2.
 - e) Historical Committee nothing to report.
 - f) Journal Committee a plea was made to have the membership list up to date.
 - g) Membership Committee written report Attachment 3.
 - h) Nominating and Election Committee written report Attachment 4.

5. Special Committee Reports:

- a) Newsletter Committee written report Attachment 5.
- b) Congressional Liaison no report.
- c) FAA Certification no report.
- d) Spectrum Clearance working paper to ITU is in.
- e) Publicity Goldstein has little further interest in WGA with Beukers moved, but will send Convention information to trade publications.
- f) New Initiatives Position Paper 78-2 Attachment 6.

6. Other Old Business:

- a) V. Weihe suggested that since the ION has facilities which might be useful to the WGA, some arrangement on cooperation might be mutually profitable. The ION is actively thinking of setting up a Loran-oriented section.
- b) L. Fehlner reported on contacts with a commercial company to maintain our membership lists, also do printing and mailing. The costs quoted seemed reasonable, and he was encouraged by the Board to investigate further.
- c) The question was raised to whom do we send our position papers? It was agreed the Board had no complete answers, and more input is needed. V. Weihe noted that the DOT libraries have very little information on Loran, and no support for a mid-continent chain.

Meeting Adjourned 12:37 p.m.

Attochment 1

BOARD OF DIRECTORS

W.N. DEAN
L.D. HIGGINBOTH
W.H. HILBUN
V. JOHNSON
E.L. McGANN
A. PANKOPF
R.A. PASCIUTI
P.R.J. REYNOLDS

J.P. VAN ETTEN

WILD GOOSE ASSOCIATION

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August 4, 1978

MEMORANDUM TO:

MR. W. POLHEMUS, SECRETARY

WILD GOOSE ASSOCIATION

FROM:

V. L. JOHNSON

CHAIRMAN, CONSTITUTION COMMITTEE

SUBJECT:

COMMITTEE BEFORT FOR BOARD MEETING ON 8/8/78

- 1. WGA EMBLEM REGISTRATION The application has been filed.
 No response yet. Our legal counsel advises that no problems are expected.
- 2. CONSTITUTION/BY-LAWS REVISIONS No current activity.
- CC: Constitution Committee Members:
 - L. Fehlner
 - G. Zemlin

BOARD OF DIRECTORS

P.R.J. REYNOLDS J.P. VAN ETTEN

WILD GOOSE ASSOCIATION

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August 4, 1978

MEMORANDUM TO: MR. W. POLHEMUS

SECRETARY, WILD GOOSE ASSOCIATION

· FROM: V. L. JOHNSON

CHAIRMAN, CONVENTION COMMITTEE

SUBJECT: COMMITTEE REPORT FOR BOARD MEETING ON 8/8/78

1. <u>Guest Speakers</u> - Selection has been established as follows:

Luncheon (Thurs.) - CMDR. WILLIAM B. WATKINS, USCG Executive Officer USCG Airstation New Orleans, Louisiana

Banquet - Brig. Gen. Robert A. Foster, USAF HQ, ESD (OC), Hanscomb AFB

Luncheon (Fri.) - Rear Admiral Alfred P. Manning, USCG Chief, Office of R&D, HO USCG

Jim Culbertson reports that verbal acceptances by the speakers has been established. A letter has been sent by the President, WGA, to each speaker confirming the invitation and the speakers' acceptance.

2. Technical Program - Papers selection and planning of the technical program have been completed. Jim Van Etten reports that he has corresponded with each of the authors in regard to acceptance and with instructions for preparation and submission. Preparation and printing of a detailed program brochure, with abstracts and biographical sketches, is planned to be available at registration time. Inputs from the authors for this purpose have been requested by September 15. Preparation and printing of the "Proceedings of the Seventh Annual WGA Convention" is planned as soon as practical after the convention. Consideration

is being given to having a section of the proceedings devoted to a record of the activities and events of the convention since it is planned that the proceedings will be provided to all WGA members this year. Comments by the Board on this matter will be appreciated.

- 3. Convention Program The overall program to be included in the upcoming convention mailing to the membership has been released for printing. Proof copy is attached. Note that five technical sessions are scheduled, in accordance with the discussions and approval of the Board at the last meeting. Hotel arrangements have been made to accommodate the expansion in technical sessions and the addition of a luncheon on Friday.
- 4. Convention Mailing Preparation is in process with the mailing planned near the end of August. John Beukers advises that a set of mailing labels is being forwarded to Vern Johnson.

VLJ:bmc

CC: Convention Committee Members:

M. Block

J. Culbertson

E. Roland

H. Sherman

J. Van Etten

Attachasent 3

BOARD OF DIRECTORS

R.A. PASCIUTI P.R.J. REYNOLDS J.P. VAN ETTEN



August 8, 1978

MEMORANDUM TO MR. W. POLHEMUS, SECRETARY, WGA

FROM:

L. D. Higginbotham, Chairman of the membership committee.

Subject: Committee report, August 8, 1978

During the period between 9 June and 8 August 1978 I have processed 76 renewals and 8 new memberships. In addition I have processed approximately 15 requests for information on loran, membership and the Navigation Journal. I am unable at this time to give an accurate account of total membership. I loaned the membership cards of paid up members to the Journal committee. Until such time that the membership file is reentered in a computer a certain amount of confusion will exist regarding total membership and related mailing lists. (See newsletter report).

My supply of journals is now down to approximately 20 copies. My response to inquiries has been that we reserve the limited supply to new memberships, and that the 1978 edition will be available in October. I request that a price be set on the new journal at this meeting so that I may quote it in my correspondence.

In preparation for the coming year I request that the incoming president prepare a letter of welcome for new members and that he apply his signature to at least one hundred fifty membership cards for the membership committee immediately after the convention. This committee will also require approximately 300 of the 3 inch decals if we are to continue issuing them to new members.

Lloyd D./Higginbotham

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BOARD OF DIRECTORS

J.M. BEUKERS	President
L.F FEHLNERVice	President
W POLHEMUS	Secretary
B UTTAM	Transurar
R.J. ABRACZINSKAS	
W.N. DEAN	
L.D. HIGGINBOTHAM	
W.H. HILBUN	
V. JOHNSON	
E L U-CANN	

WILD GOOSE ASSOCIATION



July 5, 1978

Mr. William Polhemus, Secretary Wild Goose Association Box E Cambridge, VT 05444

Dear Bill,

A total of 164 ballots were received by 30 June 1978, of which 152 were valid. These were counted on 5 July 1978 by the Nominating and Elections Committee. The results are as follows.

For	President		Uttam Andren	103 47
For	Director	E. V. C. B. F. C. G.	Van Etten McGann Weihe Andren Uttam Chambers Veronda Gutman Rockwell	124 93 71 62 59 55 49 43

The valid ballots are being shipped to you as required by the By-Laws.

Election Results Certified 5 July 1978

Nominating and Election Committee

Walter N. Dean, Chairman

warter W. Bean, Chairman

Mun T. Choi

Richard G. Keeyan

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BOARD OF DIRECTORS

R.A. PASCIUTI P.R.J. REYNOLDS J.P. VAN ETTEN





8 August 1978

MEMORANDUM TO MR. W. POLHEUMS, SECRETARY, WGA

FROM:

L. D. Higginbotham, Chairman of the Newsletter Committee.

SUBJECT:

Committee report, August 8, 1978

The last newsletter was dated March 1978. I have sufficient inputs for another letter but have been using the excuse of no mailing labels. I talked to John Beukers about this in late July. He told me that it was his intention to reenter the membership on his computer facility in Philadelphia, but that it would be at least a month before he could accomplish it. In the meantime he has provided me with a Zerox set of addresses which will have to be cut and pasted. In view of these difficulties I can only promise that there will be a newsletter prior to the end of September.

The WGA has been granted an income tax exemption by the Federal Government which I forwarded to the treasurer. I assume that this will lead to a bulk mail permit but am uncertain as to the timing in relation to the newsletter and convention mailings.

The new postage rates are drastic. Packages containing the Journal plus other membership materials has increased from 61ϕ per package to anywhere from 92ϕ to well over a dollar. This should be taken into account in setting the price for the 1978 Journal.

Lloyd D. Higginbotham

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R.A. PASCIUTI P.R.J. REYNOLDS LP. VAN ETTEN

WILD GOOSE ASSOCIATION



POSITION PAPER 78-2

CRITICAL ISSUE: IMPACT OF POWER LINE CARRIER SYSTEMS

BACKGROUND

For many years now, Loran-C performance has been adversely affected in the vicinity of power lines; and such degradation in performance has been attributed to Loran-C pickup and reradiation from the power lines.

There is now considerable evidence that these effects are not due to Loran-C pickup and reradiation, but rather are caused by power line carrier radiation.

For some time, power line carrier systems have been utilized by power utilities for protection, control and supervision of the power system. (1) Power line carrier systems have been favored over other communication media because of its inherent reliability and low cost in applications where only a few communications channels are required. Carrier frequencies between 30 and 200 KHz are generally employed with heavy use concentration near 100 KHz.

The "radiated" field strength has been measured and is found to be inversely proportional to distance from the power line, for distances of 0.1 miles to 30 miles. (1) For a typical 100-watt carrier system, the field one mile from the power line has been measured to be about 55 db above 1 uv/m. (1)

In recent years, interest is growing in application of load-management techniques to electric-utility systems. (2, 3, 4)
Techniques of load-management include: (1) watt-hour meters with clock-activated control, (2) radio control, (3) ripple control (introduction of an audio signal into power distribution network for control), (4) high frequency (e.g., 50-100 KHz) two-way distribution power-line carrier communication system, (5) telephone line systems. By use of the fourth technique,

with a transmitter at the consumer end, two-way communications is provided and a large amount of versatility is added to the system. This versatility takes the form of automatic meter reading, same day utility system billing, etc., load management, and preventive maintenance capability. Therefore, many utility management experts (2, 4) believe that the two-way distribution power line carrier communications system provides the most versatile and flexible system for implementing load management, multi-rate pricing and automatic meter reading.

Several projects are underway under the auspices of the U.S. Department of Energy (DOE) and the Electric Power Research Institute (EPRI) to implement and test two-way power-line carrier communications systems. Increased use of carrier communications systems on power-lines can be anticipated in the future; unfortunately such increased use will bring increased radio interference to services (such as Loran-C), operating in the frequency band utilized.

It is indeed ironic that these power-line carrier systems, which cause so much interference to authorized radio systems such as Loran-C, are unregulated by the Federal Communications Commission (FCC).

WGA POSITION

The Wild Goose Association believes that power-line carrier systems should be regulated by the Federal Communications Commission (FCC) to insure that authorized radio services are properly protected.

REFERENCES

- (1) "Power Line Carrier Radiation from High Voltage Lines", by D. E. Jones, Ontario Hydro Research Quarterly, 3rd Quarter, 1965.
- (2) "EPRI Looks Inward and Ahead", IEEE Spectrum, February 1978.
- (3) "A Step in Load Management Strategy Development", by Stanley A. Trumbower, Public Utilities Fortnightly, June 17, 1976.
- (4) "The Technology for Load Management Rate Structures" by Don W. Miller and Mark S. Gerber, Public Utilities Fortnightly, June 3, 1976.