

SECTION III

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Report of the Meeting of the Standing Committee on International Control (STACTIC) Working Group re the NAFO Hail System 28-29 April 1992 Dartmouth, Nova Scotia, Canada

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Report of the Meeting of the Standing Committee on International Control (STACTIC) Working Group re the NAFO Hail System

Dartmouth, Nova Scotia, Canada, 28-29 April 1992

1. Opening

The Executive Secretary of NAFO, L. Chepel, opened the meeting by welcoming the working group membership (Annex 1) to Dartmouth, Nova Scotia and briefly outlining the terms of reference as extracted from FC Doc. 92/1, STACTIC Report, February 1992, Copenhagen.

2. Appointment of Rapporteur

L. Strowbridge (Canada) was appointed Rapporteur.

3. Adoption of Agenda

The agenda, as amended, was adopted (Annex 2).

4. Elaboration of Terms of Reference

4.1 Presentation and discussion of Working Papers

The working group reviewed STACTIC W.G. Working Paper 92/1 (Communication study to handle the hail system) presented by the Executive Secretary and 92/2 (Proposed Definition of Requirements and Implementation Strategy for an Automated Hail System) presented by Canada.

The working group exchanged views on these documents and requested clarification of certain points from the authors. The delegate of the EEC presented STACTIC W.G. Working Paper 92/3 (Annex 3) as a description of their current hail reporting process.

4.2 Recommendation of system architecture and approximation of cost

STACTIC W.G. Working Paper 92/2 (Annex 4), as amended, was **accepted** as a document that generally represented the definitions of requirements for an automated hail system. The delegate of the EEC noted the importance of ensuring security and confidentiality of all data. Discussions on the automation of the hail system were limited to adherence with current Conservation and Enforcement Measures as the continued evolution of the hail system is, at this point, difficult to predict.

The working group recommends that STACTIC and the Fisheries Commission approve W.G. Working Paper 92/2 and the following course of action:

- Phase 1. Implement a pilot project to test data exchange capability between Contracting Parties and the NAFO Secretariat. The pilot project would include participation by at least two (2) Contracting Parties (for example, the EEC and Canada) and the NAFO Secretariat and involve the transmission of data from, for example, the EEC to the NAFO Secretariat for storage and onward transmission to Canada and vice versa. As well, the pilot project would outline file structures/message formats, define data elements and test communication links. During the pilot project, current data exchange processes (telex/facsimile) would continue to ensure redundancy and provide verifiable data for evaluation of the pilot project. The pilot project would also include the development of fall-back or back-up procedures to ensure that data is not lost or duplicated.
- Phase 2. Upon successful conclusion of the pilot project, develop request for proposals from potential contractors to design a generic system to receive, store and forward hail data from Contracting Parties to the NAFO Secretariat for onward transmission to Contracting Parties with an inspection presence in the NAFO Regulatory Area. The design of this generic system should ensure that costs incurred by shipowners are minimized, whenever possible. It is recognized that some Contracting Parties with limited fishing activity in the NAFO Regulatory Area (NRA) may wish to continue using the current data exchange process (telex/facsimile).

To minimize costs associated with the pilot project, the EEC and Canada agreed to utilize existing personnel/resources (including consulting services from Canada) to assist the NAFO Secretariat in purchasing a computer modem and developing software. The costs associated with Phase II should not exceed \$40,000 Cdn assuming that Contracting Parties have available hardware to accept the generic software.

5. Deadline for Presentation of Requests to/from Potential Contractors

Subject to the Fisheries Commission approval and a successful completion of the pilot project, proposals from interested contractors to automate the NAFO Hail System should be presented to the NAFO Secretariat by 15 August 1992.

6. Adoption of Final Report

The report of the Working Group was unanimously adopted by the participants. The Executive Secretary was asked to furnish as soon as possible the report to the Fisheries Commission and STACTIC for the comments of the Contracting Parties and adoption by the Fisheries Commission.

7. Other Matters

There were no questions raised under item "Other Matters".

8. Adjournment

The meeting was adjourned at 1100 hours, 29 April 1992.

Annex 1. List of Participants

NAFO SECRETARIAT

L. I. Chepel, NAFO Executive Secretary (Chairman)
T. Amaratunga, Assistant Executive Secretary

CANADA

R. Cosh, Dept. of Fisheries and Oceans, Information Systems Development, Stn 1382, 200 Kent Street, Ottawa, Ontario
K1A 0E6
L. Strowbridge, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1

EUROPEAN ECONOMIC COMMUNITY (EEC)

J. P. L. Verborgh, Commission of the European Communities, J-99 Office 6/78, Wetstraat 200, B-1049 Brussels, Belgium

JAPAN

T. Hasegawa, Japan Fisheries Association, Suite 1101, Duke Tower, 5251 Duke Street, Halifax, Nova Scotia, Canada

RUSSIAN FEDERATION

A. Mikhailov, Representative of Russia in Canada on Fisheries, Welsford Place, 2074 Robie Street, Suite 2202-3, Halifax,
Nova Scotia, Canada B3K 5L3

Annex 2. Agenda

1. Opening by the Executive Secretary
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Elaboration of terms of reference for a Communication Study to recommend a compatible system for the NAFO Secretariat and Contracting Parties:
 - 4.1 Presentation and discussion of Contracting Parties' papers/proposals
 - 4.2 Recommendation of a compatible system architecture with its cost approximation
5. Recommendation of deadlines for presentation of requests to/from potential contractors
6. Adoption of a final report to STACTIC and Fisheries Commission
7. Other matters
8. Adjournment

Annex 3. Current Hail Reporting Procedures Used by the EEC

Introduction

This document gives a short description of the way in which the hail reports are currently processed by the European Community. Distinction is made between hail reports from EEC vessels and hail reports from vessels from other Contracting Parties.

1. Hail Reports from EEC Vessels

1.1 Principle

Vessels flying the flag of a Member State (MS) of the European Economic Community (EEC) shall transmit their hail reports

- 1) to the Commission of the European Communities (CEC) and simultaneously,
- 2) to their competent national authorities.

Within 24 hours of receipt of the hail reports, whenever possible, the CEC shall, on behalf of the EEC, transmit the information contained therein to the Executive Secretary of NAFO.

Attachment 1 refers.

1.2 Procedures for transmission to NAFO

Vessels send the hail reports by telex to the Directorate General for Fisheries (DG XIV) (telex no. 24.189 FISEU-B) of the CEC (see example in Attachment 2).

The incoming hail reports are entered in a database by the telex operators. A dedicated online application was developed for that purpose under the ORACLE database system on a UNIX computer (see example of completed screen in Attachment 3).

Originals of the telexes are filed.

Once or twice a day, depending on the workload, the newly arrived hail reports are extracted from the database and put in telex format. This telex is then sent to the Executive Secretary of NAFO (telex no. 019-31475) (see example in Attachment 4).

1.3 Enforcement

DG XIV's Inspection and Control Unit uses both desktop and portable PC's. The PC's run an integrated database and spreadsheet package, named OPEN ACCES, under MS-DOS. The desktop PC's are connected with the UNIX computer through a local network.

Hail reports from EEC vessels are downloaded from the UNIX machine to the PC's. Inspectors on mission in the NAFO Regulatory Area (NRA) use portable PC's.

A number of predefined reports can be made:

- 1) list of hail reports from a particular vessel
- 2) list of hail reports of all vessels present in the NRA
- 3) list of all hail reports

These lists can be used by the inspectors to verify whether vessels comply with NAFO conservation and enforcement measures.

2. Hail Reports from Vessels from Other Contracting Parties

2.1 Principle

The Contracting Parties transmit the hail reports to the NAFO Executive Secretary.

The NAFO Executive Secretary transmits to the EEC the information contained in the *hail reports received from the other Contracting Parties*, when the EEC has an inspection presence in the NRA.

2.2 Procedure for Reception from NAFO

The NAFO Executive Secretary transmits the hail reports to the EEC chartered Inspection vessel "Ernst Haeckel", either by fax through Standard-A satellite communications or by telex via *Halifax radio*.

The hail reports are entered on the portable PC's on board of the inspection vessel. A screen mask has been developed for this purpose (see Attachment 5)

2.3 Enforcement

On the PC's, the data from EEC vessels and *from other Contracting Parties* vessels are merged.

Enforcement tools are as described under 1.3.

Attachment 1

No L 21/4

Official Journal of the European Communities

30.1.92

COUNCIL REGULATION (EEC) No 189/92
of 27 January 1992

adopting provisions for the application of certain control measures adopted by
the Northwest Atlantic Fisheries Organization

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

NAFO regulatory area; whereas that proposal is acceptable to the Community,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Regulation (EEC) No 170/83 of 25 January 1983 establishing a Community system for the conservation and management of fishery resources⁽¹⁾, as amended by the 1985 Act of Accession and in particular Article 11 thereof,

Having regard to the proposal from the Commission,

Whereas the Convention on future multilateral cooperation Northwest Atlantic fisheries, hereinafter referred to as the NAFO Convention, was approved by the Council by Regulation (EEC) No 3179/78⁽²⁾ and entered into force on 1 January 1979;

Whereas the Northwest Atlantic Fisheries Organization (NAFO) established by the NAFO Convention adopted a Scheme of Joint International Inspection which was adopted by the Council in Regulation (EEC) no. 1956/88⁽³⁾;

Whereas the NAFO Fisheries Commission, at its 13th Annual Meeting held in Dartmouth on 13 September 1991, adopted a proposal for the establishment of a control measure, requiring fishing vessels to communicate certain information regarding their activities in the

HAS ADOPTED THIS REGULATION:

Article 1

Vessels flying the flag of a Member State of the Community to which the NAFO scheme of joint international inspection applies shall transmit to the Commission of the European Communities and simultaneously to their competent national authorities, in accordance with the rules laid down in the Annex, the information set out therein.

Article 2

Within 24 hours of receipt of the reports, whenever possible, the Commission shall transmit the information contained therein to the Executive Secretary of NAFO.

Article 3

This Regulation shall enter into force on the third day following that of its publication in the *Official Journal* of the European Communities.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 27 January 1992.

For the Council

The President
A. MARQUES DA CUNHA

⁽¹⁾ OJ No L 24, 27.1.1983, p. 1.

⁽²⁾ OJ No L 378, 30.12.1978, p. 1.

⁽³⁾ OJ No L 175, 6.7.1988, p. 1.

ANNEX

1. The communications described below shall be entitled 'NAFO report'. The information to be transmitted, which shall be presented in the form specified, is as follows:
 - 1.1 each entry of the vessel into the Regulatory Area. This report shall be made at least six hours in advance of the vessel's entry and shall contain the following particulars in the following order:
 - name of vessel,
 - call sign,
 - external identification letters and numbers,
 - the date, the time and geographical position,
 - indication of the message code: "ENTRY",
 - the NAFO division into which the vessel is about to enter,
 - the name of the master;
 - 1.2 each movement from one NAFO division to another NAFO division except when moving between divisions 3L and 3N, and 3N and 3O under the conditions provided for in 1.3, each movement from the delimited zone of 10 miles either side of the lines separating divisions 3L and 3N and 3O when the conditions set out in 1.3 no longer apply. These reports shall be made prior to the vessel's entry into a NAFO division and shall contain the following particulars in the following order:
 - name of vessel
 - call sign,
 - external identification letters and numbers,
 - the date, the time and geographical position,
 - indication of the message code: "MOVE",
 - the NAFO division into which the vessel is about to enter,
 - the name of the master;
 - 1.3 vessels conducting trans-zonal fishery between NAFO Divisions 3L and 3N or between divisions 3N and 3O which cross the line separating these divisions more than once during a period of 24 consecutive hours, and provided that they remain within the delimited zone (of 10 miles either side of the line between the divisions) shall report when first crossing the line between the divisions and at intervals not exceeding 24 hours thereafter (while remaining in the delimited zone), the following particulars in the following order:
 - name of vessel,
 - call sign,
 - external identification letters and numbers,
 - the date, the time and geographical position,
 - indication of the message code: "ZONE",
 - the name of the master;
 - 1.4 each exit from the Regulatory Area. These reports shall be made prior to the vessel's exit from the Regulatory Area and shall contain the following particulars in the following order:
 - name of vessel,
 - call sign,
 - external identification letters and numbers,
 - the date, the time of geographical position,

- indication of the message code: "EXIT",
 - the NAFO division from which the vessel is about to leave,
 - the name of the master.
2. Without prejudice to the provisions set down in Commission Regulation (EEC) No 2807/83 of 22 September 1983 laying down detailed rules for recording information on Member States' catches of fish⁽¹⁾, after each radio transmission of the information described in point 1 the following details are to be immediately entered in the logbook:
- date and time of the transmission,
 - in the case of radio transmissions, the name of the radio station through which the transmission was made.
- 3.1 The information specified under point 1 shall be transmitted to the Commission of the European Communities in Brussels (telex 24189 FISEU-B) and to the competent national authorities of the Member State whose flag the vessel is flying.
- 3.2 If it is impossible for reasons of *force majeure* for the message to be transmitted by the vessel, it may be transmitted on the vessel's behalf by another vessel.

⁽¹⁾ OJ No L 276, 10. 10. 1983, p. 1

Attachment 2

CONFIDENTIAL

24189a fiseu b
29221 tc bru b
zczc es41107a23699 cot571
bebr co esra 035
mariavictoriag/efjs madridradio/ehy 32 21 2023

tlx24189
comision cc.ee. direccion general xiv licencias pesca
fiseu bruselas

- a) nafo report
- b) maria victoria g.
- c) efjs
- d) vi-2-02336
- e) 20.04.92. 0900 gmt.
- f) 4808n 04730w
- g) zone
- h) 31
- i) jose gonzalez

Attachment 4

CONFIDENTIAL

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User: Relay administrator

Request id: fiseu-5719 Printer: fiseu

Tue Apr 21 14:13:03 BRU 1992

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SUBJECT :- N.4871.34.SPR/NAFOHAILREPORT/ PEDERSEN

BRUSSELS 21/04/92 N. 4871.34.SPRFM:CEC DIR.GEN.FISHERIES XIV/C/3
TO:-NAFO-DTR-NOVA SCOTIA; 01931475
ATTN. DR. L. CHEPEL, EXECUTIVE SECRETARY
BT
SUBJ/PLEASE FIND H/A HAIL REPORTS MSG.A. NAFO REPORT 463 / 1207
B. PLAYA DE MENDUINA
C. EEKN
D. VI-5 9446
E. 16/04/92 22:35
F. 4812N - 4630W
G. MOVE
H. 3L
I. F VALLADARESA. NAFO REPORT 465 / 1209
B. NARVAL
C. EACV
D. VI-5 8752
E. 16/04/92 00:45
F. 4725N - 4710W
G. MOVE
H. 3M
I. R GARCIAA. NAFO REPORT 467 / 1211
B. ANA MARIA GANDON
C. EFYK
D. VI-5 9334
E. 16/04/92 01:30
F. 4820N - 4630W
G. MOVE
H. 3M
I. J MARTINEZA. NAFO REPORT 464 / 1208
B. BIGARO
C. EFSM
D. VI-5 8748
E. 16/04/92 00:45
F. 4725N - 4710W
G. MOVE
H. 3M
I. R GARCIAA. NAFO REPORT 466 / 1210
B. VIEIRASA VI
C. EAHY
D. VI-5 9845
E. 16/04/92 01:15
F. 4805N - 4632W
G. MOVE
H. 3M
I. J B FRADUAA. NAFO REPORT 468 / 1212
B. RAMP
C. EHTR
D. GI-4 2179
E. 16/04/92 04:30
F. 4817N - 4625W
G. MOVE
H. 3L
I. S F FARNINA

Attachment 5

hail_rep

--- HAIL REPORT ---

A. Report number ..	.....	REP_No
B. Vessel Name .....	.....	NAME
C. Call Sign .....	.....	CALLSIGN
D. Vessel Number ..	.....	VSSL
Nationality .....	.....	FLAG
E. Date	Time.....	DTE TME
F. Latitude	Longitude.....	LAT LONG
G. Message .....	.....	MSG
H. NAFO division ..	.....	AREA
I. Name of Master	MASTER

Date and time of receipt on board FPV

Date	DTE2
Time	TME2

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Annex 4. Proposed Definition of Requirements and Implementation Strategy for an Automated Hail System (prepared by the STACTIC Working Group)

Executive Summary

NAFO has amended its Conservation and Enforcement Measures such that fishing vessels of member nations are now required to hail, i.e. provide advance notice of intended movement into and out of the NAFO Regulatory Area (Divisions 3L, 3M, 3N, 3O, etc.), and between Subdivisions within the Regulatory Area. The amount of advance notice required in different cases is specified in the amendments to the NAFO Conservation and Enforcement Measures.

A fishing vessel currently hails to its owner via radio. The owner sends the hailed data to, in most cases, a government department of the country of registry, or competent authority (if the owner is not the competent authority). The competent authority relays the hail to the Contracting Party (if the competent authority is not itself the Contracting Party). The Contracting Party then relays the hail to the NAFO Secretariat in Dartmouth, Nova Scotia. The NAFO Secretariat then relays the hail to Contracting Parties with an inspection presence in the area. Most steps in the forwarding of hails are performed using facsimile or telex, and involve duplication of work at different sites.

The objective of this project is to alleviate an increase in workload brought about by NAFO's new hail requirements, and to enhance the accuracy and timeliness of reporting by automating the storing and forwarding of hails from fishing vessels, and the production of statistical reports. Development of database and communications software is seen as an effective solution to an immediate requirement which could otherwise be satisfied only at an unacceptable labour cost.

This paper contains proposals for design standards (message format, database and communications), and an implementation strategy.

This report follows and is based on the STACTIC recommendations made in Copenhagen on 18-20 February 1992 and STACTIC Working Group Working Paper 92/1.

1.0 Current System Model

The Current System Model consists of a diagram of the current implementation of the automated or manual systems to be studied. The sole purpose of this model is to gain an understanding of the current environment and to become aware of the potential impact of the new system on the current environment; its level of detail therefore is only sufficient to achieve that understanding.

The current NAFO-Hail system is manual. A fishing vessel currently hails to its owner via radio. The owner sends the hailed data to, in most cases, a government department of the country of registry, or competent authority (if the owner is not the competent authority). The competent authority relays the hail to the Contracting Party (if the competent authority is not itself the Contracting Party). The Contracting Party then relays the hail to the NAFO Secretariat in Dartmouth, Nova Scotia. The NAFO Secretariat then relays the hail to Contracting Parties with an inspection presence in the area. Most steps in the forwarding of hails are performed using facsimile or telex, and involve duplication of work at different sites.

Following is a Data Flow Diagram showing the current system of recording hails and reporting on compliance with the requirements of the NAFO Conservation and Enforcement Measures. The data elements are the same as listed in the Current System Data Model section.