

ORDER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

GL AF 1770.33

GREAT LAKES REGION

10/7/88

SUBJ: GREAT LAKES REGION TELECOMMUNICATIONS MANAGEMENT AND OPERATIONS (TM&O)
RESPONSIBILITIES WITHIN GREAT LAKES REGION

1. PURPOSE. This Order will describe the TM&O interfaces and responsibilities of affected organizations within the Great Lakes Region Airway Facilities.
2. DISTRIBUTION. This Order will be distributed to the section level in Airway Facilities and to all Airway Facilities Field Offices.
3. BACKGROUND. The establishment of a TM&O organization within Airway Facilities will consolidate many telecommunications related functions that are now divided between other Airway Facilities entities. The TM&O organization will also assume many new functions that are not currently performed within Airway Facilities.
4. LIMITATIONS OF THIS ORDER. This Order will not address specific details of the Administrative and Operational Telephone Programs. This Order will not discuss TM&O relationships to other divisions within Great Lakes Region. These programs and relationships will be addressed in other National and Great Lakes Region Orders.
5. EFFECTIVE DATE. The assumption of responsibilities by the TM&O organization will be effective September 30, 1988.
6. TM&O RESPONSIBILITIES AND INTERFACES. The TM&O organization's responsibilities and interfaces are detailed below. The telecommunications related responsibilities of other affected Airway Facilities organizations will be described in subsequent paragraphs and Appendix 1, including Administrative Data Transmission Network (ADTN).
 - a. Performs as Manager for the development, execution, and control of the Regional Telecommunications Program.
 - b. Performs as Regional Network Manager for all interfacility telecommunications including RCL, Data Mux, NARACS, NADIN, LABS, ADTN, A800, leased telephone circuits, fiber optics, satellite, and others as identified.
 - c. Ensures end-to-end integrity of all Regional interfacility telecommunications services, both new and existing systems and equipment. Intrafacility telecommunications responsibility remains with Operations Engineering Branch.
 - d. Reviews all planned facility establishments, modernizations, and relocations to assure all interfacility/intrafacility requirements are identified.

Distribution: A-X-(AF)-4; A-FAF-0

Initiated By: AGL-420

- e. Places orders for all telecommunications services. Serves as principal Regional contact point for coordination with telecommunications vendors to ensure that all services are properly and timely provided.
- f. Serves as principal regional coordination point for all DECCO interfaces.
- g. Provides technical planning, advice, and network engineering for all telecommunications equipment, circuits, and services, including remote control circuits, key equipment, interphone/data circuits, radar remoting services, and other telecommunications services to meet operational and administrative requirements.
- h. Serves as the principal regional coordination point for all telecommunications requirements for all F&E projects through direct interface with air traffic, sector personnel, and the Establishment, Operations Engineering, and Maintenance Operations Branches.
- i. Serves as Regional program manager for telecommunications switching systems including PBX, key systems, 300/301/375/MTCS/others.
- j. Provides telecommunications engineering services and technical guidance to Airway Facilities field maintenance organizations for the end-to-end maintenance, repair, and restoration and configuration management of leased/owned interfacility telecommunications services and equipment as designated in Appendix 1.
- k. Manages and administers all fiscal aspects of the Region's telecommunications program, including budget preparation, monitoring, execution, and reprogramming as necessary.
- l. Conducts ongoing program of inventories for all telecommunications within the Region to ensure maximum cost versus benefit.
- m. Performs program analysis by continuously monitoring, reviewing, and analyzing telecommunications reliability and availability in both new and existing facilities and actively pursues improvements.
- n. Initiates and participates in telecommunications service improvement meetings involving FAA, GSA, DECCO, and telecommunications vendors. Represents the Region in all national and international telecommunications meetings.
- o. Serves as regional focal point for all requirements and provisioning associated with the administrative and operational telecommunications program.
- p. Provides Regional coordination and resource management for access to all operational and administrative telecommunications networks, including RCL, NADIN, DMN, ADTN, leased lines, and other area networks.
- q. Develops and administers Regional contingency plans for restoration due to the interruption of telecommunications services caused by natural disasters, sabotage, etc.

r. Develops and administers Regional methods, procedures, orders, standards, specifications, handbooks, and other technical and supporting documentation determined to be necessary for designated circuit and telecommunications equipment engineering and implementation. Review and recommend changes to National guidelines and directives.

s. Serves as the principal Regional interface to the National TM&O Division and to other Washington offices involved in telecommunications matters.

t. Ensures configuration control for all space, demarcation, and interfaces for all telecommunications facilities.

u. Serves as focal point for all Regional international telecommunications requirements.

v. Develops and maintains Regional data bases and supports National data base for telecommunications.

7. OPERATIONS ENGINEERING RESPONSIBILITIES AND INTERFACES. The Operations Engineering Branch's telecommunications related responsibilities and interfaces are detailed below.

a. Provides telecommunications engineering services and technical guidance to Airway Facilities field maintenance organizations for the end-to-end maintenance, repair, and restoration and configuration management of leased/owned interfacility telecommunications services and equipment as designated in Appendix 1.

b. Assist TM&O and the Sectors in the identification and resolution of telecommunications network and service problems.

c. Address telecommunications related network and service problems at Focus Facility meetings.

8. ESTABLISHMENT ENGINEERING RESPONSIBILITIES AND INTERFACES. The Establishment Engineering Branch's telecommunications related responsibilities and interfaces are detailed below.

a. Accomplish F&E funded telecommunications projects.

b. Provide interface engineering and planning assistance to TM&O on F&E funded projects.

c. Identify present and future telecommunications requirements on F&E funded projects.

d. Provide assistance to TM&O for end-to-end telecommunications problem resolution on F&E funded projects.

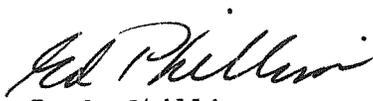
9. AIRWAY FACILITIES SECTOR RESPONSIBILITIES AND INTERFACES. The Airway Facilities Sector's telecommunications related responsibilities and interfaces are detailed below.

a. Primary operational responsibility for telecommunications equipment and services.

b. Responsible for real-time end-to-end maintenance and restoration of telecommunications services and equipment.

c. Identify present and future telecommunications requirements to TM&O.

d. Provide assistance to TM&O for end-to-end telecommunications problems resolution.


E. J. Phillips

APPENDIX 1

TM&O MAINTENANCE AND OPERATIONS RESPONSIBILITY ASSIGNMENTS

| <u>Systems, Equipment, Services</u> | <u>Sector</u> | <u>TM&O</u> | <u>Operations Engr.</u> | <u>Hdq</u> |
|---|---------------|-----------------|-------------------------|------------|
| DTE | P | | S | |
| DSE | P | | S | |
| DCE | P | S | | |
| CPE | P | S | | |
| RCL/RML | P | | S | |
| Networks | | P | | S |
| Interfacility Trans. Media | P | S | | |
| Intrafacility Trans. Media | P | | S | |

P = Primary Responsibility
S = Secondary Responsibility

DTE-Data Terminal Equipment (FSDPS, FDIO, Sector Suite, etc.)
DSE-Data Switching Equipment (NADIN, VSCS, ICSS, TCS, etc.)
DCE-Data Communication Equipment (MODEM, MUX, DSU, CSU, etc.)
CPE-Customer Premises Equipment (PBX, Key Sets, POTS, WECO 300/301, etc.)
Networks (ADTN, ETN, WANS, WATS, PSTN, DMN, etc.)
Transmission Media (cable, fiber, microwave, satellite)

Notes:

1. Responsibility assignments are same for both leased or FAA-owned facilities.
2. Operations Engineering Branch has secondary support responsibility for DCE integral to DTE.
3. Information included in systems, services, equipment is submitted as examples only and is not meant to be all inclusive.