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PERMANENT JOINT BOARD OF DEFENSE
Canada—United States

DC
RG
IA

UNITED STATES SECTION
THE PENTAGON
WASHINGTON D. C. 20301

5 November 1974

MEMORANDUM FOR THE OFFICE OF ASSISTANT TO THE PRESIDENT
FOR NATIONAL SECURITY AFFAIRS

SUBJECT: 137th Meeting of the Permanent Joint
Board on Defense, Canada-United States

1. Attached herewith for your information is a copy of the Journal of Discussions and Decisions of the 137th meeting of the Permanent Joint Board on Defense, Canada-United States, held at Eglin AFB, Florida, 22 - 25 October 1974.

2. The Permanent Joint Board on Defense will hold its 138th meeting in March 1975. If you have any suggestions as to agenda items, the United States Section would be happy to receive them.

Andy Borg
ANDY L. BORG
Chairman

Attachment



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1B

NATIONAL ARCHIVES AND RECORDS ADMINISTRATION
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REASON FOR WITHDRAWAL National security restriction

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Canada-United States

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AFB, Florida, 22-25 October 1974

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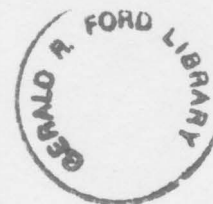
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BRIEFING ON
CROSS BORDER COMMUNICATIONS FACILITIES

Briefers: Colonel R. A. Goldfogle
OJCS/J-6

Major P. R. Weisbrod
NDHQ/DGCEO



CROSS BORDER COMMUNICATIONS FACILITIES

Colonel Goldfogle: Good morning Senator Aird, Ambassador Borg, Gentlemen. As you already know, I am Colonel Dick Goldfogle, Chief of the Operations Division, Communications-Electronics Directorate, Joint Staff of the Joint Chiefs of Staff in Washington; and on your right is Major Paul Weisbrod of the Office of the Director General, Communications-Electronics Operations, Deputy Chief of the Defence Staff, NDHQ, Ottawa. We are very pleased to have been asked by you to present a short briefing on the defense oriented communications interconnecting our two countries.

Major Weisbrod: We are going to briefly show you today the cross border circuits in common groupings. By that I mean first of all, the means of communicating by voice, both secure on AUTOSEVOCOM and non-secure, such as AUTOVON or Canadian Switched Network; then the means of communicating by record copy - message or data - primarily via AUTODIN and the Defense Data Network which is the Canadian equivalent. We will identify both common user and dedicated voice and record systems, and lastly, we will identify the transmission media also shown here which are used to get the communications from point to point.

Colonel Goldfogle: As of the beginning of this month, I have been able to identify 523 circuits from the US terminating in Canada and an additional 181 circuits which traverse Canada to reach other points, such as Alaska, Greenland, and Europe.

Colonel Goldfogle: Turning first to the Automatic Secure Voice Network, AUTOSEVOCOM, two cross-border circuits exist today; one wideband circuit between Washington and Ottawa and a narrowband circuit between NORAD and Ottawa. A third wideband circuit between Washington and Ottawa should be operational by early next month. You can see from this vugraph that two circuits, wideband in this case, exist between Washington and NORAD. In addition, there are narrowband secure terminals located at North Bay and Goose Bay receiving their connection through the AUTOVON system and the Canadian Switched Network switch as shown.



Major Weisbrod: As Colonel Goldfogle described, there is a narrowband secure voice facility connecting Cheyenne Mountain to 22 NORAD Region Hq, North Bay. AUTOSEVOCOM also reaches the US 95 Strategic Wing at Goose Bay via the Fredericton CSN AUTOVON switch. The CINCNORAD-Ottawa circuit terminates in the National Defence Operations Center, Ottawa, and must be accessed there.

Major Weisbrod: The existing Washington-Ottawa wideband circuit terminates on a manual switchboard in the National Defence Operations Center (NDOC), NDHQ Ottawa. It can also be accessed in the emergency government hq at Carp close to Ottawa. The Prime Minister and the Minister of External Affairs each have secure access to this system from locations in the Parliament Building. The Minister of National Defence and the Chief of the Defence Staff each have access instruments in the NDOC. The second wideband circuit will also terminate on the NDOC switchboard.

Colonel Goldfogle: In Washington, secure voice service is available throughout the Pentagon, at the State Department, White House, and within other key government agencies having a need for real time passing of classified information by voice. The majority of these secure voice calls traverse the AUTOVON system getting from one point to another, but of course the transmissions are unintelligible to any one listening in. If our officials desire to converse on NATO matters, for instance, unclassified conversation could take place over any telephone or voice system. Classified conversations, however, would take place over the AUTOSEVOCOM system we have just described or via the NATO Elcrovox secure voice system that, for Canada and the United States, interconnect the NDOC in Ottawa thru SACLANT at Norfolk to the Pentagon.

Colonel Goldfogle: Turning to the Automatic Voice Network, or AUTOVON, that system is connected by a total of 60 switches within the US and 9 in Canada. Switch locations are shown here.

Major Weisbrod: Each AUTOVON or CSN switch is connected to ten other switches to form a poly-grid network.



There are approximately 250 cross border trunks in the switch network interconnecting the various switches, with approximately 200 US subscribers on the Canadian switches and 140 Canadian subscribers on US switches. The main Canadian users of CSN/AUTOVON are located in the Canadian Radar Squadrons, Interceptor Squadrons, and 22 NORAD Region Hq of the NORAD/SAGE/BUIC systems.

Colonel Goldfogle: In addition, there are 139 AUTOVON access lines crossing the border from a switch in the US, virtually all directly to a US user in Canada. Of these 139, 131 are to NORAD SAGE-BUIC locations, 2 are for NORAD voice alert, and 6 are part of the Joint Chiefs of Staff alerting network out of Washington, and for other similar specialized purposes.

Colonel Goldfogle: Now in addition to the AUTOVON system for voice traffic, our next series of vugraphs will show 28 other existing cross-border voice circuit groupings. We believe you will recognize their use without any detailed explanation on our part. However, we do have some further detail on many of those circuits listed, should you wish that information at the conclusion of this presentation.

Colonel Goldfogle: Turning next to record communications systems, the major system is the Automatic Digital Network, or AUTODIN. This vugraph shows that there are presently three AUTODIN trunks crossing the US/Canadian border. Two emanate from the Automatic Switching Center at Andrews AFB near Washington and primarily connect into the system the US units at Goose Bay, Labrador and Sondestrom in Greenland. The third trunk connects Ottawa to the Automatic Switching Center at Hancock, near Syracuse in New York State.

Major Weisbrod: From the Canadian point of view, the Defense Data Network transfers traffic to AUTODIN via three common user circuits:

Nanaimo - McChord

Ottawa Rockcliffe - Andrews

Halifax - Norfolk



This enables transfer of on-line encrypted traffic classified Secret or below. Continuing discussions are being held concerning interconnection between AUTODIN and the future Strategic Automatic Message Switching Network (SAMSON). It is planned to consolidate the various cross-border teletype circuits, to the extent possible, into a number of direct electrical automatic interfaces. This would allow transfer of Top Secret traffic.

Colonel Goldfogle: In addition to AUTODIN for record traffic, there are, as shown in our next two vugraphs, close to 60 other circuit groupings crossing the border. Again, as with the similar vugraphs we have shown for other voice circuits, we think you may recognize the uses as shown and we will be happy to provide further details on any of them should you so desire when this briefing is concluded. My same comments apply to this vugraph depicting separate data circuit groupings that traverse our mutual border.

Colonel Goldfogle: Having discussed up to now the means of communication, voice and record, for passing information back and forth across the border, how do we do it?

Major Weisbrod: Basically there are 5 ways. This vugraph depicts some of the major systems. There is tropospheric scatter radio or microwave radio, wire lines, or cable, underwater submarine cable and, although not currently in use for our crossborder needs, satellite communications. Any of these transmission media could be government-owned or leased from commercial organizations. Commercial and military equipment often interconnects to make the transmission path complete.

Colonel Goldfogle: What we have presented this morning, Gentlemen, is an overview of communications crossing the border between the US and Canada. We have discussed the common-user and dedicated voice systems, secure and non-secure, common-user, and dedicated record systems, including teletype and data, and we have discussed the cross-border transmission media that moves the communications to where it needs to go.



We hope this information has been useful to you and we, again, appreciate being given the opportunity to make this presentation. At this time we will gladly entertain any questions you may have and, if we do not have sufficient answering information with us, we will be glad to obtain it and provide it to you at a later time. Thank you.





CROSS BORDER
COMMUNICATIONS
CANADA--UNITED STATES

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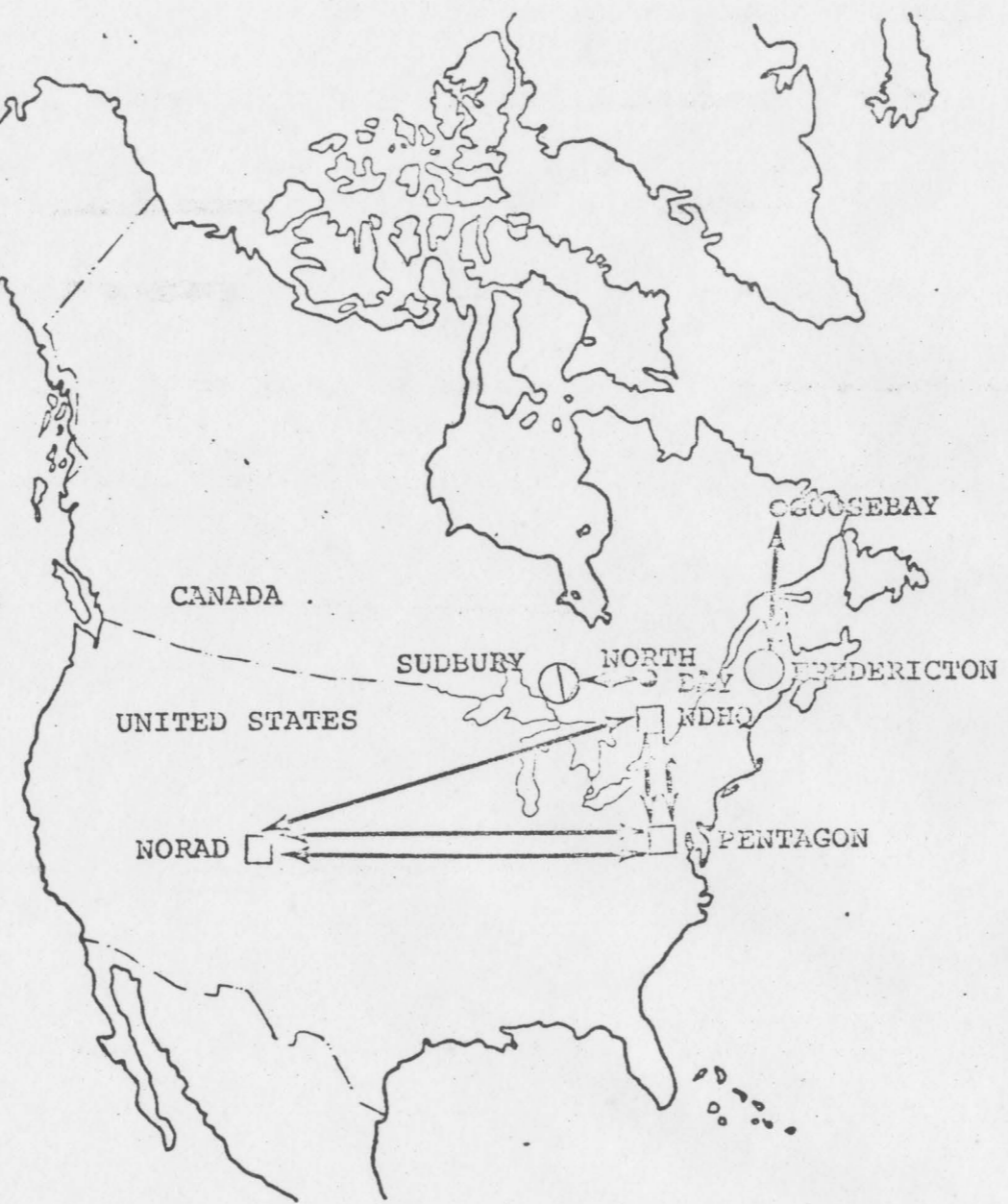
CROSS BORDER CIRCUITS



- AUTOSEVOCOM
- AUTOVON/CSN
 - OTHER VOICE SYSTEMS
- AUTODIN/DDN
 - OTHER RECORD SYSTEMS (TELETYPE AND DATA)
- CONNECTING FACILITIES
 - TROPO/MICROWAVE RADIO
 - WIRE/CABLE
 - LEASED FACILITIES
 - SUBMARINE CABLE
 - SATELLITES

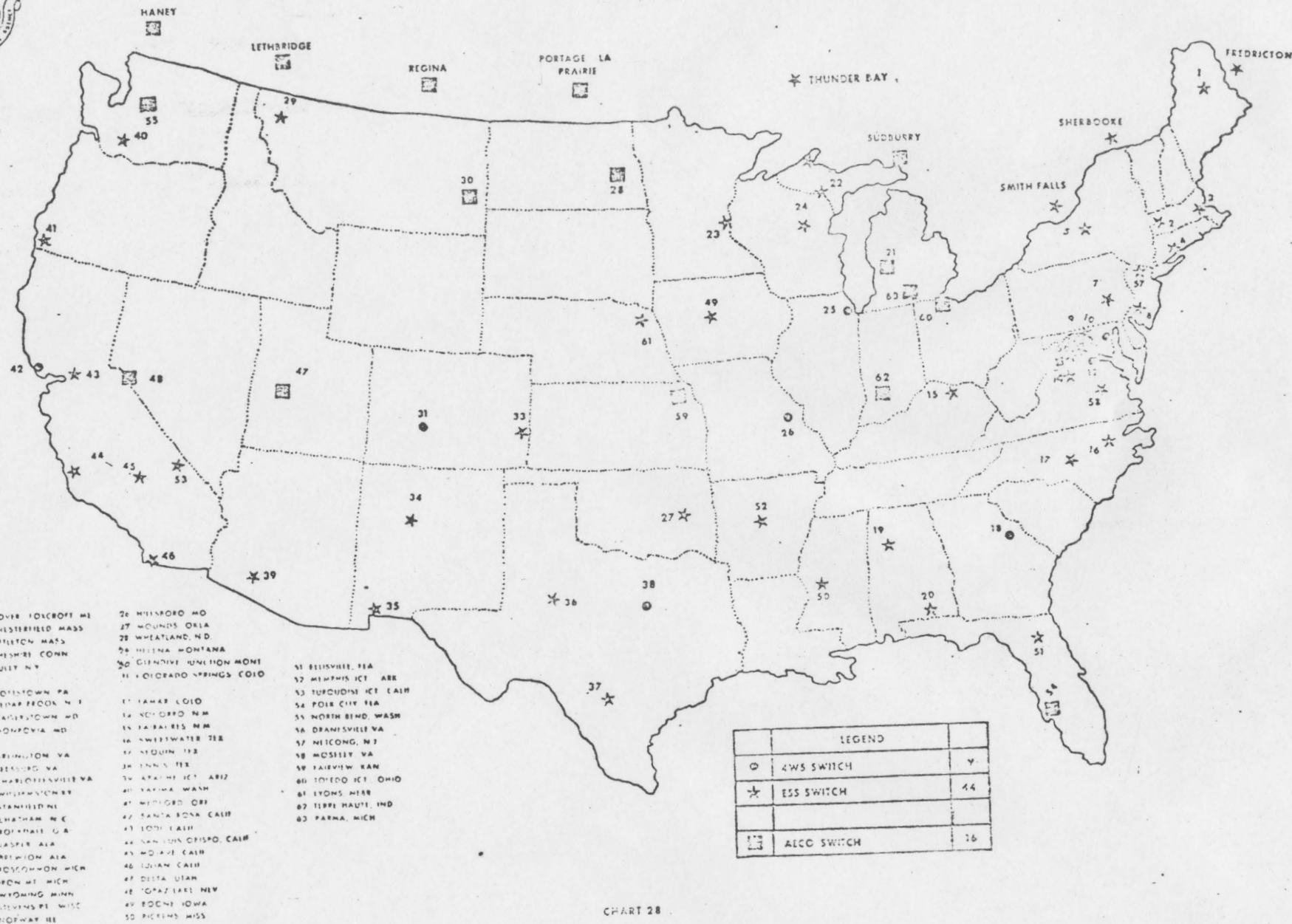


AUTOSEVOCOM
UNITED STATES/CANADA
CROSS-BORDER CIRCUITS





DCS CONUS AND CANADA AUTOVON SWITCHING CENTERS



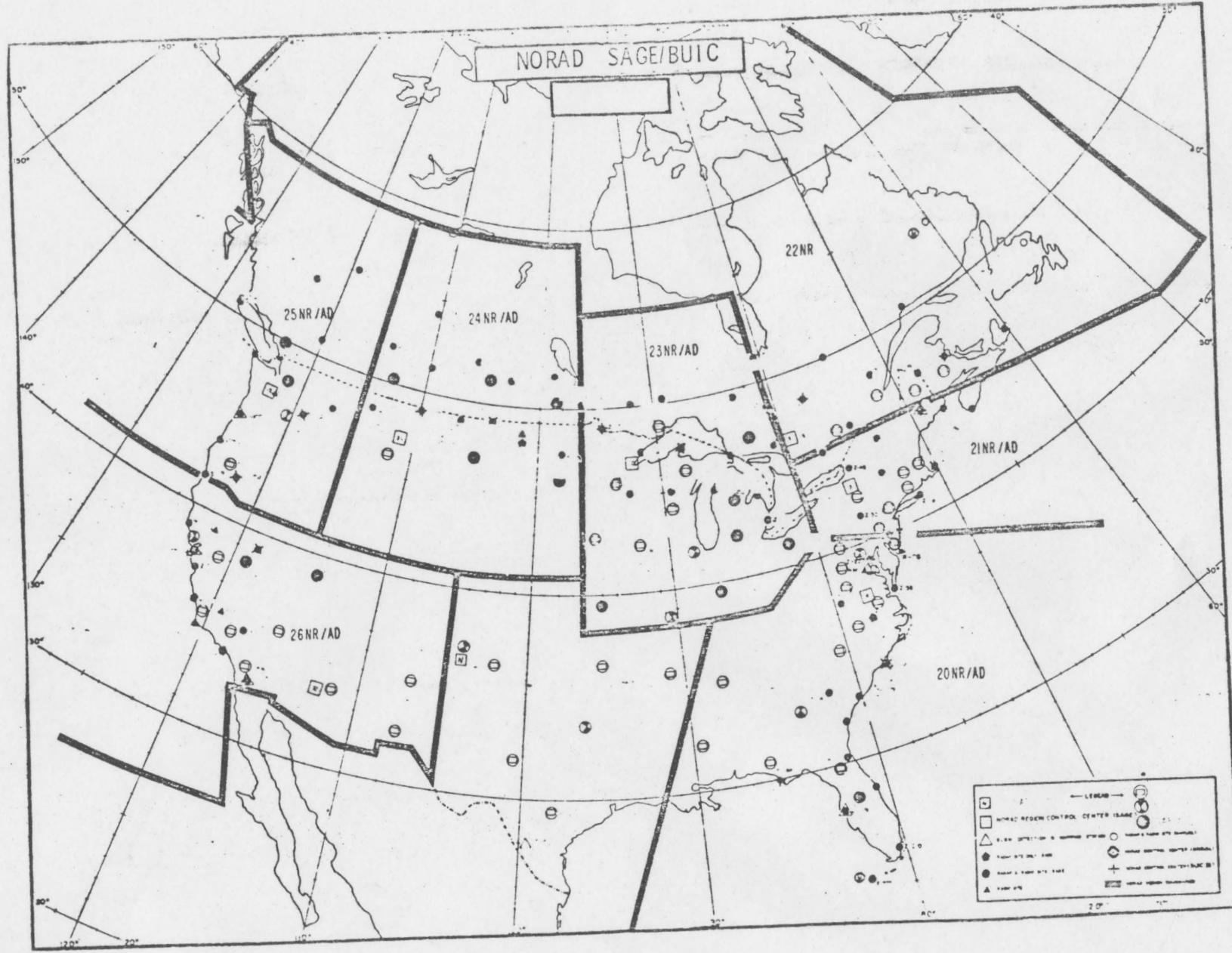
- | | | |
|-----------------------|--------------------------|--------------------|
| 1 ROVER POLCROFT MI | 26 MINNAPOLIS MO | 51 BELLEVILLE ILL |
| 2 CHESTERFIELD MASS | 27 WOUNDS OKLA | 52 MEMPHIS TEN |
| 3 LITTLETON MASS | 28 WHEATLAND ND | 53 TUPACONNE ILL |
| 4 CHESTER CONN | 29 HELENA MONTANA | 54 POIR CITY ILL |
| 5 SUIT NY | 30 GLENVIEW ILL | 55 NORTH BEND WASH |
| 7 POTTSVILLE PA | 31 COLORADO SPRINGS COLO | 56 DRANESVILLE VA |
| 8 LINAPACON N | | 57 NELSON N |
| 9 HANLINGTON MD | | 58 MCSEELY VA |
| 10 MONROVIA MD | | 59 FAIRVIEW CAN |
| 12 ARLINGTON VA | 32 FARGO ND | 60 TOLEDO ILL OHIO |
| 13 SPESBORO VA | 33 WHEELING W. VA | 61 LYONS ILL |
| 14 CHARLOTTESVILLE VA | 34 DENVER COLO | 62 TIPPE HAVEN IND |
| 15 WASHINGTON DC | 35 SALT LAKE CITY UTAH | 63 PARMA OHIO |
| 16 STANFIELD NC | 36 DENVER COLO | |
| 17 LATHAM N.Y. | 37 DENVER COLO | |
| 18 ROYAL OAK MI | | |
| 19 JASPER ILL | | |
| 20 REIDMAN ILL | | |
| 21 FORT MONROE DE | | |
| 22 IRON MT. ILL | | |
| 23 WYOMING MINN | | |
| 24 MILWAUKEE WIS | | |
| 25 FORT WAY ILL | | |

CHART 28

UNCLASSIFIED

DDA 67
DDY 73

UNCLASSIFIED



UNITED STATES/CANADA CROSS-BORDER CIRCUITS
VOICE OTHER THAN DCA SWITCHED NETWORKS



1. NASA	1
2. AIR DEFENSE COMMAND NETWORK	2
3. DCA OPERATIONS CONTROL	1
4. JCS ALERTING NETWORK	3
5. GSA FEDERAL TELECOMMUNICATIONS SYSTEM	3
6. COORD FOR ATOMIC OPERATIONS NETWORK	1
7. FAA SVC F INTERPHONE	5
8. US COAST GUARD	1
9. AFSC MULTIPLE SATELLITE TRACKING NETWORK	1
10. SAC PRIMARY ALERT SYSTEM	3
11. SAC REMOTE UHF SYSTEM	12



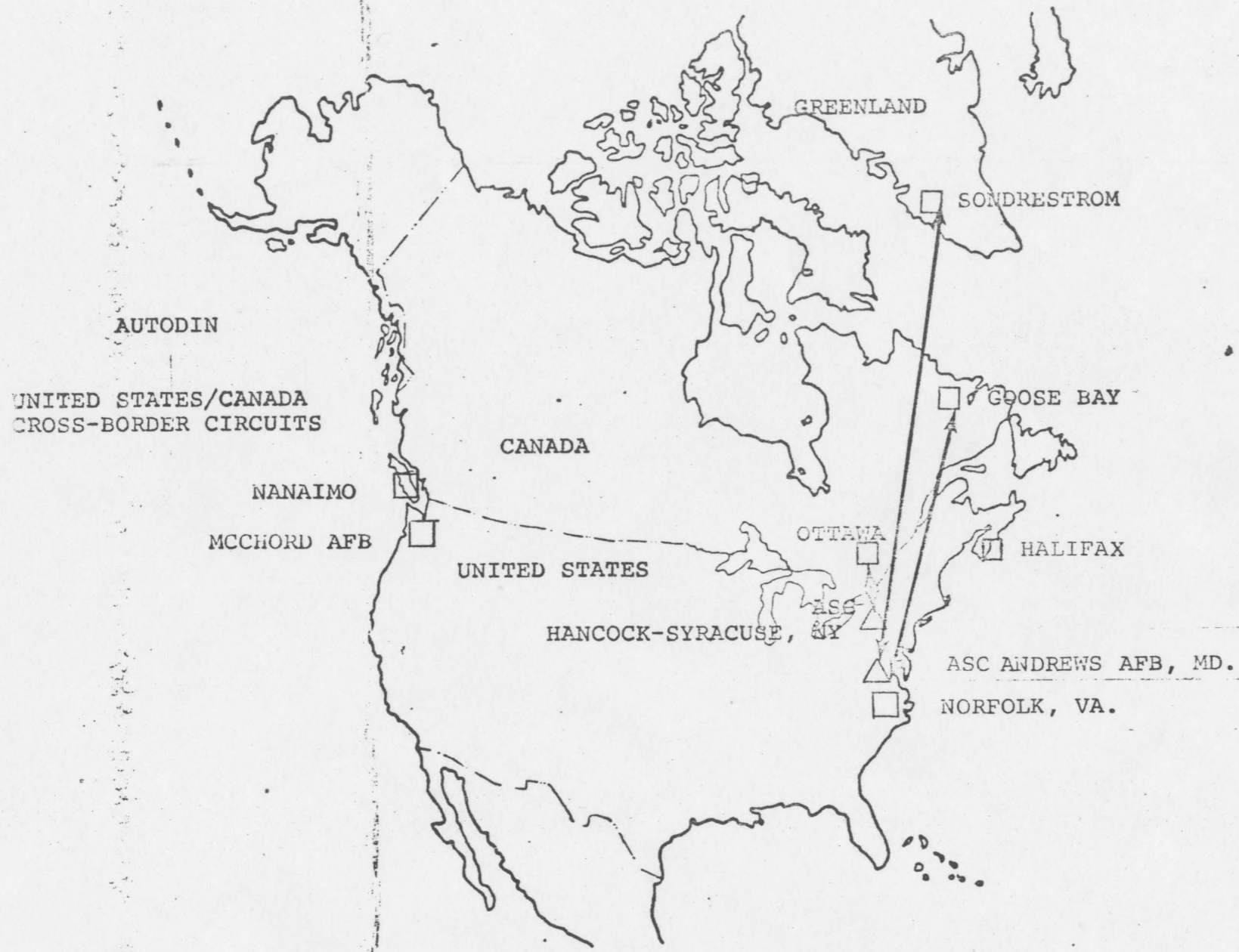
VOICE OTHER THAN DCS SWITCHED NETWORKS

12. SAC TELEPHONE NETWORK	1
13. ARMY COMMAND AND CONTROL NETWORK	3
14. PUBLIC OFFERING TELE/TELEG NETWORK	2
15. DCA ORDER WIRE	1
16. AF CP NETWORK	1
17. NATO NETWORK	1
18. AFRTS/STARS AND STRIPES	1
19. DCA SPARE CHANNEL	13
20. COMMON USER VOICE SVC	4
21. SPECIAL PURPOSE NETWORK	1
22. FLEET SHIP-SHORE	1
23. CINCLANT COMMAND AND CONTROL NETWORK	1



VOICE OTHER THAN DCS SWITCHED NETWORKS

24.	NORAD ADC POINT-TO-POINT	7
25.	OCEAN SYSTEMS NETWORK	1
26.	SATCOM CONTROL AND REPORTING	1
27.	FLIGHT FOLLOWING/AIR OPS SVC NETWORK	1
28.	BMEWS	8
	TOTAL	<u>81</u>



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UNITED STATES/CANADA CROSS-BORDER CIRCUITS
TELETYPE OTHER THAN DCS SWITCHED



1. NASA	2
2. DCA COORDINATION	1
3. NAVY DIRECTION FINDING	5
4. DIPLOMATIC TELECOMMUNICATION SYSTEM	1
5. FAA	2
6. US COAST GUARD	1
7. AIR FORCE SYSTEMS COMMAND MULTIPLE SATELLITE TRACKING	1
8. PUBLIC OFFERING TELEPHONE/TELEGRAPH NETWORK	1
9. NATIONAL ALERT COMMUNICATIONS 1	4
10. ORDER WIRE	3
11. WEATHER	2



TELETYPE OTHER THAN DCS SWITCHED

12. NATO	3
13. AFRTS/STARS STRIPES	1
14. DCA SPARES	13
15. DEPARTMENT OF STATE	3
16. COMMON USER	3
17. ANTI SUBMARINE WARFARE	1
18. NORAD	3
19. OCEAN SYSTEMS NETWORK	<u>7</u>
TOTAL	57



UNITED STATES/CANADA CROSS-BORDER CIRCUITS
DATA OTHER THAN DCS SWITCHED

1. DEFENSE SUPPLY AGENCY	1
2. NORAD/ADC SAGE-BUIC SWITCHED NETWORK	16
3. OCEAN SYSTEMS NETWORK	2
4. BMEWS	<u>4</u>
TOTAL	23

