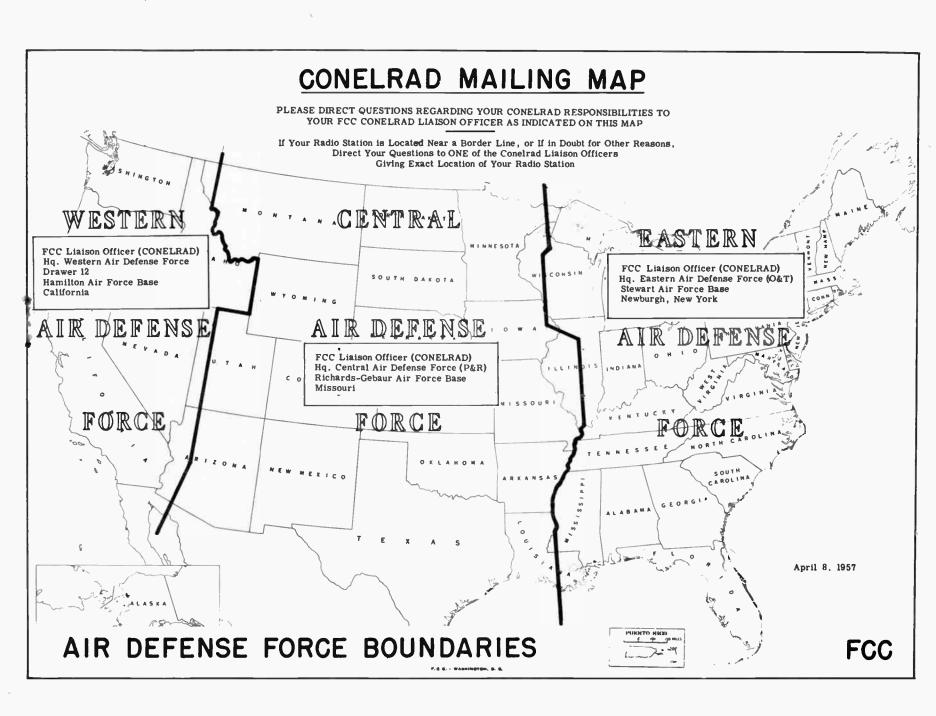
FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON 25, D. C.

CONELRAD ALERTING MANUAL FOR ALL CLASSES OF RADIO STATIONS EXCEPT STANDARD. FM & TV BROADCAST STATIONS





CONELRAD RADIO ALERT INFORMATION

All radio station licensees in the Continental United States must arrange to receive the CONELRAD RADIO ALERT in accordance with the requirements for the service concerned in order that controlled operation for radio stations may be effected during periods of imminent air attack.

This document explains methods authorized by the FCC for receiving the CONELRAD RADIO ALERT.

THE ALERTING PLAN: From a Command standpoint and for the purpose of air defense, the Continental United States is divided by the Air Defense Command (ADC), of the United States Air Force into large areas known as Air Defense Forces. Each Air Defense Force is subdivided into smaller areas known as Air Divisions (Defense). Each Air Division (Defense) has, as its operational staff section, an Air Defense Control Center (ADCC). The alerting plan is built around the various Air Defense Control Centers. The Air Defense Control Center is the point that will originate a CONELRAD RADIO ALERT on the authority of the Air Division Commander.

Certain standard, FM and TV broadcast stations have been designated as "Basic Key" or "Relay Key" stations and will disseminate a RADIO ALERT by telephone and radio broadcast to implement the CONELRAD Plan for the broadcast services.

Each standard, FM and TV broadcast station that is in operation (whether or not it is a Basic Key or Relay Key station) will, upon receipt of the CONELRAD RADIO ALERT, proceed as follows:

- (a) Discontinue normal program.
- (b) Cut the transmitter carrier for approximately 5 seconds.
- (c) Return carrier to the air for approximately 5 seconds.
- (d) Cut the transmitter carrier for approximately 5 seconds.
- (e) Return carrier to the air.
- (f) Broadcast 1,000 cycle (approx.) steady state tone for 15 seconds.
- (g) Broadcast the CONELRAD RADIO ALERT MESSAGE.

CONELRAD RADIO ALERT MESSAGE

"We interrupt our normal program to cooperate in Security and Civil Defense measures as required by the United States Government.

"This is a CONELRAD RADIO ALERT.

"Normal broadcasting will now be discontinued for an indefinite period. Civil Defense information will be broadcast in most areas at 640 or 1240 on your regular radio receiver.

"I Repeat,

"This is a CONELRAD RADIO ALERT

"Normal broadcasting will now be discontinued for an indefinite period. Civil Defense information will be broadcast in most areas at 640 or 1240 on your regular radio receiver."

NOTE: (a) through (f) above is for the purpose of attracting the listeners' attention, or, if desired, to operate an automatic alert receiver or warning device. (Coution: (a) through (f) is a warning that a RADIO ALERT may follow; the actual RADIO ALERT signal is the spoken word in the form of the CONELRAD RADIO ALERT MESSAGE).

The CONELRAD RADIO ALERT message, as set forth above, is worded in a manner suitable for reception by the public, however, the message is also THE CONELRAD RADIO ALERT. When this CONELRAD RADIO ALERT MESSAGE is received, all licensees must immediately comply with the CONELRAD oper-

ating procedures. The precise CONELRAD RADIO ALERT MESSAGE, above, will be broadcast only in the event of an actual ALERT. In the event of a CONELRAD test or drill, broadcast stations will make an announcement that a test or drill is taking place.

The Radio Alert Warning and RADIO ALERT MESSAGE are transmitted on the broadcast station's normally assigned frequency.

HOW THE CONELRAD RADIO ALERT CAN BE RECEIVED: Licensees of radio stations other than standard, FM and TV broadcast stations can receive the RADIO ALERT by monitoring (either manually, or by automatic means) any standard, FM or TV broadcast station that is in operation in the Air Division (Defense) in which they are located or by monitoring designated Skywave Key Stations. (See map of Air Defense Boundaries attached.) This method of alerting is applicable to all radio services, except standard, FM and TV broadcast stations, for which a special alerting plan has been established.

Certain radio stations are on Air Defense Warning Networks, or extensions thereof. Such stations can receive the Alert Warning from the Network. If this is the case, these radio stations will follow the CONELRAD operating procedure upon receipt of the CONELRAD RADIO ALERT or if no CONELRAD RADIO ALERT is transmitted the CONELRAD operating procedure shall be implemented upon receipt of Air Defense Warning Yellow (or Air Defense Warning Red if no Warning Yellow is transmitted). This method of alerting is applicable to many of the Public Safety Radio Service stations, and stations operated by States, Cities and Municipalities, Civil Defense organizations, etc.

Certain Government radio stations will transmit the RADIO ALERT on 500 kc A2 emission in the following form:

"XXX"	XXX	XXX	CONELRAD	RADIO	ALERT	ordered (

//Maint	ain R	adia S	ilonco II				(LIMIT OF AFFECTED AREA)

Licensees can receive the ALERT by this method if applicable. This method of alerting is generally applicable to Coastal Radio Stations and ocean going vessels.

Designated government radio stations will transmit the RADIO ALERT on 2182 kc A3 emission in the following form:

"URGENT Broadcast URGENT Broadcast	t URGENT Broadcast
"CONELRAD RADIO ALERT ordered	()
"Maintain Badio Silence."	(LIMIT OF AFFECTED AREA)

Licensees can receive the ALERT by this means if applicable. This method of alerting is usually suitable for yachts, fishing vessels and other small craft.

It is acceptable for a radio station to receive the CONELRAD RADIO ALERT by telephone or other means from any point that receives the CONELRAD RADIO ALERT by any means specified above.

NOTE: A firm agreement with an individual (such as the licensee of a broadcast station or other radio station) to expeditiously relay the ALERT to your station is considered as an acceptable arrangement. Caution should be used however, in providing for alerting at all times when your radio station is open for operation.

Licensees operating a group of fixed location and/or mobile radio stations may provide for receiving the CONELRAD RADIO ALERT at one or more points, provided the ALERT can be expeditiously relay to all units from that point or points.

It is not necessary for a licensee to provide for CONELRAD RADIO ALERTING when his radio station is closed down. Caution whould be used however to insure that a CONELRAD RADIO ALERT is not in progress before putting the station in service.

Radio station licensees desiring to receive the CONELRAD RADIO ALERT by means not covered above may request authority from the Secretary, FCC to receive the ALERT in another manner. The request must include remarks as to why the methods above are not suitable and must fully describe the proposed method for receiving the ALERT.

SKYWAVE KEY STATIONS

During the experimental period (12 midnight to local sunrise) many standard broadcast stations may be off the air. Certain high-powered Basic Key or Relay Key standard broadcast stations have been designated as Skywave Key

SKYWAVE KEY STATIONS (continued)

Stations and will remain on the air during the experimental period for purposes of disseminating the CONELRAD RADIO ALERT. Skywave Key Stations should be used for the reception of the RADIO ALERT when the normally used station/s cannot be heard.

Skywave Key Stations specified for the Air Division in which your station is located should be used for reception of the CONELRAD RADIO ALERT. (See attached list of Skywave Key Stations)

THE CONELRAD RADIO ALL CLEAR

The CONELRAD RADIO ALL CLEAR is initiated by the Commanding Officer of the Air Division (Defense) or higher military authority and can be received by one or more of the methods specified below.

- (A) By reception of the CONELRAD RADIO ALL CLEAR MESSAGE from any standard, FM or TV broadcast station located in your Air Division. At the conclusion of a RADIO ALERT and when the CONELRAD RADIO ALL CLEAR is issued, each standard, FM and TV broadcast station will broadcast 15 seconds of 1000 cycle tone beeps and then the CONELRAD RADIO ALL CLEAR MESSAGE as follows:
 - "The CONELRAD operating procedures have been ordered discontinued. All radio stations are authorized to return to normal operation on their regularly assigned frequencies:

"I repeat

- "The CONELRAD operating procedures have been ordered discontinued. All radio stations are authorized to return to normal operation on their regularly assigned frequencies."
- (B) By reception of the CONELRAD RADIO ALL CLEAR from a government radio station operating on 500 kc A2 emission and transmitting the following message:

"CQ CQ CQ DE (Call Letters)
"CONELRAD RADIO ALL CLEAR

(LIMIT OF AFFECTED AREA)

(C) By reception of the CONELRAD RADIO ALL CLEAR from a government radio station operating on 2182 kc A3 emission and transmitting the following message:

"To All Ships To All Ships This is (Call Sign)
"CONELRAD RADIO ALL CLEAR

(LIMIT OF AFFECTED AREA)

- (D) By notification from an Air Defense Warning Network or extension thereof.
- (E) Methods for receiving the CONELRAD RADIO ALERT are acceptable for receiving the CONELRAD RADIO ALL CLEAR.

Radio stations may resume normal operation when the CONELRAD RADIO ALL CLEAR is issued for your Air Division.

GENERAL

Standard, FM and TV broadcast stations when operating on their normal frequencies in a normal manner is a criterion that No CONELRAD RADIO ALERT is in progress.

It is the responsibility of the licensee to arrange for a satisfactory means to expeditiously receive the CONELRAD RADIO ALERT and comply with the CONELRAD operating requirements.

When Skywave Key Stations are used to receive the CONELRAD RADIO ALFRT it is essential that only those Skywave Key Stations listed for your Air Division be used.

If your radio station is located near an Air Division border and the attached map is not precise enough for you to determine in which Air Division your station is located, you may assume your location to be in either of the Air Divisions in question.

FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON 25, D. C.

May 1, 1957

ALERTING INFORMATION FOR OTHER THAN STANDARD, FM AND TV BROADCAST STATIONS

CONELRAD Skywave Key Stations List - No. WA - 3

GENERAL

Radio stations (other than standard, FM and TV broadcast stations) may monitor ANY standard, FM or TV broadcast station to receive the CONELRAD RADIO ALERT. In the event the broadcast station normally used to receive the ALERT is off the air or cannot be heard, Skywave Key Stations may be used to receive the ALERT.

Which Skywave Key Station Should be Used

Determine in which Air Division your station is located (from the attached map) then refer to the following list to determine which Skywave Key Station/s are specified for your Air Division.

Any Skywave Key Station specified for your Air Division may be used for receiving the CONELRAD RADIO ALERT.

Local time under the heading "Operating Schedule" signifies either Standard or Daylight Saving, whichever is applicable.

NOTE: Skywave Key Stations need only be used when local broadcast stations are off the air.

9th Air Division (Defense)

SKYWAVE KEY	LOCATION	FREQUENCIES	OPERATING SCHEDULE
KIRO	Seattle, Washington	710 kc	1, 3, 5, 7, 9 etc. weeks, 12:01 AM PST through sign-on time by K 1 R O (Alternate weekly continuous operation).
KOMO	Seattle, Washington	1000 kc	2, 4, 6, 8, 10 etc. weeks, 12:01 AM PST through sign-on time by K O M O (Alternate weekly continuous operation).
KING	Seattle, Washington	1090 kc	Continuous backup of the above schedules by K I N G, daily, except 12:01 AM to 5:15 AM PST Mondays, (On Tuesdays, K I N G operates with auxiliary transmitter from 12:01 AM to 5:15 AM PST).
K E X	Portland, Oregon	1190 kc	24 hours daily except Mondays from 12:01 AM to 5:30 AM current local time.
20th Air Division	(Defense)		
W H O	Des Moines, Iowa	1040 kc	24 hours daily except Sundays from 12:30 AM to 8:00 AM CST.
KXEL	Waterloo, Iowa	1540 kc	24 hours daily except Sundays from 12:00 MID to 7:00 AM CST.
K C M O	Kansas City, Missouri	810 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM CST.
WHB	Kansas City, Missouri	710 kc	24 hours daily.
K M O X	St. Louis, Missouri	1120 kc	24 hours daily except Mondays from 12:00 MID to 5:30 AM CST.
W O W	Omaha, Nebraska	590 kc	24 hours daily except Sundays from 1:00 AM to 6:00 AM CST.
KFAB	Omaha, Nebraska	1110 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM CST.
KOIL	Omaha, Nebraska	1290 kc	24 hours daily except Mondays from 1:00 AM to 4:00 AM CST.

SKYWAVE KEY	LOCATION	FREQUENCIES	OPERATING SCHEDULE		
KIRO	Seattle, Washington	710 kc	1, 3, 5, 7, 9 etc. weeks, 12:01 AM PST through sign-on time by K I R O (Alternate weekly continuous operation).		
KOMO	Seattle, Washington	1000 kc	2, 4, 6, 8, 10 etc. weeks 12:01 AM PST through sign-on time by K O M O (Alternate weekly continuous operation).		
KING	Seattle, Washington	1090 kc	Continuous backup of the above schedules by K I N G, daily, except 12:01 AM to 5:15 AM PST Mondays. (On Tuesdays, K I N G operates with auxiliary transmitter from 12:01 AM to 5:15 AM).		
KEX 26th Air Division	Portland, Oregon	1190 kc	24 hours daily except Mondays from 12:01 AM to 5:30 AM local time.		
	· · · · · · · · · · · · · · · · · · ·				
WABC	New York, N. Y.	770 kc	Monday thru Saturday normal program 5:45 AM to 1:00 AM EST. Sunday normal program 7:55 AM to 1:00 AM EST Monday and 400 cycle tone from 1:05 AM Monday to 5:45 AM EST.		
WCBS	New York, N. Y.	880 kc	24 hours daily $except$ Mondays from 1:05 AM to 5:30 AM local time.		
WRCA	New York, N. Y.	660 kc	24 hours daily $except$ Mondays from 1:00 AM to 5:26 AM local time.		
WOR	New York, N. Y.	710 kc	24 hours daily, 7 days per week.		
WCAU	Philadelphia, Pa.	1210 kc	24 hours daily $except$ Mondays from 1:05 AM to 5:00 AM local time.		
WIP	Philadelphia, Pa.	610 kc	24 hours daily, 7 days per week.		
WBZ	Boston, Mass.	1030 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM local time.		
wнон	Boston, Mass.	850 kc	24 hours daily except Sundays from 4:00 AM to 7:30 AM local time.		
WGY	Schenectady, N. Y.	8 10 kc	24 hours daily $except$ Fridays from 1:00 AM to 4:30 AM local time.		
27th Air Division	(Defense)				
KFI	Los Angeles, Calif.	640 kc	24 hours daily except Mondays from 12:01 AM to 5:30 AM local time.		
KMPC	Los Angeles, Calif.	710 kc	24 hours daily except Tuesdays from 1:00 AM to 5:00 AM local time.		
KNX	Los Angeles, Calif.	1070 kc	24 hours daily except Tuesdays from 12:01 AM to 5:25 AM local time.		
28th Air Division (Defense)					
KNBC	San Francisco, Calif.	680 kc	24 hours daily <i>except</i> Tuesdays and Wednesdays from 12:01 AM to 6:00 AM local time.		
KCBS	San Francisco, Dalif.	740 kc	24 hours daily except Mondays from 12:01 AM to 5:15 AM local time.		
KFBK	Sacramento, Calif.	1530 kc	24 hours daily $except$ Monday from 1:00 AM to 5:00 AM local time.		
29th Air Division (Defense)					
KDAL	Duluth, Minn	610 kc	24 hours daily except Sundays from 3:15 AM to 7:00 AM CST and Mondays from 12:00 MID to 6:00 AM CST.		
WCCO	Minneapolis, Minn.	830 kc	24 hours on Sundays only.		
WLOL	Minneapolis, Minn.	1330 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM CST.		

29th Air Division (Defense) - cont.

SKYWAVE KEY	LOCATION	FREQUENCIES	OPERATING SCHEDULE		
коу	Phoenix, Arizona	550 kc	24 hours daily $except$ Sundays from 1:00 to 7:00 AM and Mondays from 12:00 to 4:30 AM MST.		
KMIN	Denver, Colorado	950 kc	24 hours daily $except$ Mondays from $12:00$ MID to $5:30$ AM MST.		
K S L	Salt Lake City, Utah	1160 kc	24 hours daily except Thursdays from 12:00 MID to 6:00 AM MST.		
₩НО	Des Moines, Iowa	1040 kc	24 hours daily $except$ Sundays from 12:30 AM to 8:00 AM CST.		
KXEL	Waterloo, Iowa	1540 kc	24 hours daily except Sundays from 12:00 MID to 7:00 AM CST.		
KFAB	Omaha, Nebraska	1110 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM CST.		
WOW	Omaha, Nebraska	590 kc	24 hours daily except Sundays from 1:00 AM to 6:00 AM CST.		
30th Air Division	(Defense)				
WJR	Detroit, Mich.	760 kc	24 hours daily $except$ once every three or four months from 2:00 AM to 4:00 AM local time.		
K D K A	Pittsburgh, Pa.	1020 kc	24 hours daily except Mondays from 12:15 AM to 5:30 AM local time.		
WHAM	Rochester, N. Y.	1180 kc	24 hours daily. Maintenance period if necessary will be on Wednesday from 1:00 AM to 8:00 AM local time. Tone modulation between 12:30 AM and 5:30 AM local time.		
W K B W	Euffalo, N. Y.	1520 kc	24 hours daily $except$ Sundays from 4:00 AM to 7:30 AM, Mondays from 1:35 AM to 6:00 AM, and Tuesdays from 4:00 AM to 6:00 AM local time.		
31st Air Division	(Defense)				
K D A L	Duluth, Minn.	610 kc	24 hours daily except Sundays from 3:15 AM to 7:00 AM CST and Mondays from 12:00 MID to 6:00 AM CST.		
WCCO	Minneapolis, Minn.	830 kc	24 hours on Sundays only.		
WLOL	Minneapolis, Minn.	1330 kc	24 hours daily $except$ Mondays from 12:00 MID to 5:00 AM CST.		
WНО	Des Moines, Iowa	' 1040 kc	24 hours daily except Sundays from 12:30 AM to 8:00 AM CST.		
KXEL	Waterloo, Iowa	1540 kc	24 hours daily except Sundays from 12:00 MID to 7:00 AM CST.		
32nd Air Division (Defense)					
WABC	New York, N. Y.	770 kc	Monday thru Saturday normal program 5:45 AM to 1:00 AM. Sunday normal program 7:55 AM to 1:00 AM Monday and 400 cycle tone from 1:05 AM Monday to 5:45 AM Monday.		
WCBS	New York, N. Y.	880 kc	24 hours daily $except$ Mondays from 1:05 AM to 5:30 AM local time.		
WRCA	New York, N. Y.	660 kc	24 hours daily except Mondays from 1:00 AM to 5:26 AM local time.		
WOR	New York, N. Y.	710 kc	24 hours daily, 7 days per week.		
WCAU	Philadelphia, Pa.	1210 kc	24 hours daily except Mondays from 1:05 AM to 5:00 AM local time.		
WIP	Philadelphia, Pa.	610 kc	24 hours daily, 7 days per week.		
WBZ	Boston, Mass.	1030 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM local time.		
WHDH	Boston, Mass.	350 kc	24 hours daily except Sundays from 4:00 AM to 7:30 AM local time.		
WGY	Schenectady, N. Y.	810 kc	24 hours daily except Fridays from 1:00 AM to 4:30 AM local time.		

SKYWAVE KEY	LOCATION	FREQUENCIES	OPERATING SCHEDULE			
WJR	Detroit, Michigan	760 kc	24 hours daily $excebt$ once every three or four months from 2:00 AM to 4:00 AM local time.			
K D K A	Pittsburgh, Pa.	1020 kc	24 hours daily except Mondays from 12:15 AM to 5:30 AM local time.			
WHAM	Rochester, N. Y.	1180 kc	24 hours daily. Maintenance period if necessary will be on Wednesday from 1:00 AM to 8:00 AM local time. Tone modulation between 12:30 AM and 5:30 AM local time.			
WKBW	Buffalo, N. Y.	1520 kc	24 hours daily $exce pt$ Sundays from 4:00 AM to 7:30 AM, Mondays from 1:35 AM to 6:00 AM, and Tuesdays from 4:00 AM to 6:00 AM			
33rd Air Divis:	ion (Defense)					
KRLD	Dallas, Texas	1080 kc	24 hours daily $except$ Mondays from 12:00 MID to 5:30 AM CST.			
WF AA/WBAP	Dallas, Texas	820 kc	24 hours on Monday only.			
KXOL	Fort Worth, Texas	1360 kc	24 hours daily.			
KXYZ	Houston, Texas	1320 kc	24 hours daily except Mondays from 12:15 AM to . 5:30 AM CST.			
KONO	San Antonio, Texas	860 kc	24 hours daily $except$ Tuesdays from 12:00 MID to 5:00 AM CST.			
34th Air Divis	ion (Defense)					
K O Y	Phoenix, Arizona	550 kc	24 hours daily $except$ Sundays from 1:00 AM to 7:00 AM and Mondays from 12:00 MID to 4:30 AM MST.			
K M I N	Denver, Colorado	950 kc	24 hours daily $except$ Mondays from 12:00 MID to 5:30 AM MST.			
K S L	Salt Lake City, Utah	1160 kc	24 hours daily $except$ Thursday from 12:00 MID to 6:00 AM MST.			
35th Air Divis	ion (Defense)		•			
W S B	Atlanta, Ga.	750 kc	24 hours daily $except$ Mondays and Tuesdays from 1:00 AM to 5:00 AM EST.			
W N O E	New Orleans, La.	1060 kc	24 hours daily except Mondays 12:00 MID to 5:00 AM CST.			
WWL	New Orleans, La.	870 kc	24 hours daily except Sundays and Mondays from 12:00 MID to 6:00 AM local time.			
WTSP	St. Petersburg, Fla.	1380 kc	24 hours daily except Mondays from 12:00 MID to 5:00 AM EST.			
37th Air Divis	ion (Defense)					
WGN	Chicago, Illinois	720 kc	24 hours daily $except$ Sundays from 1:05 AM to 6:30 AM local time.			
WMAQ	Chicago, Illinois	670 kc	Sundays only from 1:05 AM to 6:30 AM local time.			
58th Air Divis	ion (Defense)					
WLW	Cincinnati, Ohio	700 kc	24 hours daily.			
W C K Y	Cincinnati, Ohio	1530 kc	24 hours daily $except$ once every two months from 1:00 AM to 6:00 AM			
WMPS	Memphis, Tenn.	680 kc	24 hours daily $except$ Mondays from 12:00 MID to 4:55 AM CST.			
WSM	Nashville, Tenn.	650 kc	24 hours daily, 7 days per week.			
WLAC	Nashville, Tenn.	1510 kc	24 hours daily except Sundays from 3:00 AM to 7:00 AM			
OF IL A C. Divis	(D-()		and Mondays from 12:00 MID to 4:00 AM CST.			
85th Air Division (Defense)						
WBAL	Baltimore, Md.	1090 kc	24 hours daily $except$ Sundays from 4:00 AM to 8:00 AM and Mondays from 12:05 AM to 5:00 AM local time.			
WRVA	Richmond, Va.	1140 kc	24 hours daily $except$ Mondays from 5:00 AM to 5:30 AM local time.			
WTOP	Washington, D. C.	1500 kc	24 hours daily $except$ Mondays from 12:00 MID to 5:30 AM local time.			
WWDC	Washington, D. C.	1260 kc	24 hours daily $except$ Mondays from 12:05 AM to 5:30 AM local time.			

AIR DIVISIONS FOR CONELRAD ALERTING

