

## CRS GENERATION OF NWRSAME AND ALERT (1050 HZ) TONES

The generation of NWRSAME and Alert Tones in CRS is somewhat complicated. This discussion will serve as the definitive explanation of how Tones are generated and hopefully answer all questions concerning this functionality.

Messages generated from AWIPS contain a Tone attribute in the Message Header that controls the generation of NWRSAME and Alert Tones prior to the first broadcast of the message. The Interrupt flag contained in the Message Header has no effect on the CRS generation of Tones. The Tone attribute can have one of the following three values:

1. "A" - This will result in the generation of an Alert Tone on all transmitters (see caveat below) for which the message is broadcast. Whether or not the Message Type's Alert Tone parameter in the CRS database is selected is irrelevant to the generation of the Alert Tone; it is determined solely by Tone attribute in the Message Header. However, the software will check in the CRS database for the message's Message Type to determine whether or not the NWRSAME Tone is generated. The NWRSAME Tone parameter in the Message Type table is either selected or not for each transmitter. Therefore, depending on how the Message Type is set up in the CRS database, one transmitter may have a NWRSAME Tone generated, while another does not.
2. "" (blank) - An Alert Tone will not be generated on any transmitter. The NWRSAME Tone is determined as in 1 above.
3. "N" - Neither the Alert Tone nor the NWRSAME Tone is generated on any transmitter.

**CAVEAT:** In CRS Build 8.5, a change was made to allow the user to selectively generate an Alert Tone on a transmitter by transmitter basis. In the Message Type setup there is an optional Transmitter Specific data type. One of the Transmitter Specific parameters is the Alert Tone. Normally, for each transmitter, the Alert Tone is set to one. However, on a transmitter by transmitter basis, "None" may be selected, which will prevent the generation of the Alert Tone on that transmitter.

For manually recorded messages the generation of the Tones are determined by the values selected by the operator for the NWRSAME and Alert Tones.