

MAINTENANCE CENTER OPERATION
1 X N FREQUENCY DIVERSITY
SERIAL ALARM REPORTING
DR 6/11-135A AND 135EC
SCAN POINT EXPLANATIONS

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GENERAL

This section contains an explanation of all alarm and status scan points and should be used, as needed, during response to an alarm condition. All scan points are listed, alphabetically, as they will appear on the printer or screen when received at the alarm surveillance center.

Each scan point explanation contains the following information:

- Recommended scan point abbreviation (User can convert if another choice is made.)
- Scan point name
- Processing type—Alarm or Status (See Note)
- Condition causing indication
- Effect on service
- Suggested action to be taken
- Accompanying alarms (See *Note*)
- Accompanying status (See *Note*).

Note: Alarm and Status assignments are based on recommendations for alarm or hybrid polling. User can convert if another choice is made.

This practice is reissued to revise scan point explanations. The practice is used in binder 421-100-001.

REGEN AC SWITCH SIGNALING FAIL

SCAN POINT NAME: Regenerator AC Switch Signaling Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Switch signaling data for the AC direction is not being received by the regenerator station controller from the BD direction of service channel transmission.

EFFECT ON SERVICE: None. Service channel switching capability may be lost and order-wire off-hook signaling may no longer work properly.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

REGEN BD SWITCH SIGNALING FAIL

SCAN POINT NAME: Regenerator BD Switch Signaling Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Switch signaling data for the BD direction is not being received by the regenerator station controller from the AC direction of service channel transmission.

EFFECT ON SERVICE: None. Service channel switching capability may be lost and order-wire off-hook signaling may no longer work properly.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

REGEN ORDER WIRE OFF-HOOK

SCAN POINT NAME: Regenerator Order-Wire Off-Hook.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The order-wire is off-hook because in the reporting station either a telephone set is off-hook or a headset is plugged in and the push-to-talk key on the microphone is operated.

EFFECT ON SERVICE: None. Order-wire dial tone will not operate.

SUGGESTED ACTION TO BE TAKEN: If the order-wire is not in use, request the technician to hang it up.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

REGEN CONTROL SYSTEM ALARM

SCAN POINT NAME: Regenerator Control System Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Failure of the regenerator control system. The control shelf regenerator controller on one of the transmission shelf channel controllers may have failed.

EFFECT ON SERVICE: None; however, the system's ability to switch service channels or properly report scan points may be lost. Also, if a transmission failure occurs when this alarm is present, the system may lose its protection switching capability.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: Possibility that switch signaling failure scan points will be activated in either or both directions of transmission.

ACCOMPANYING STATUS: None.

REGEN FAN FAIL

SCAN POINT NAME: Regenerator Fan Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The failure of one or more of the regenerator bay cooling fans.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

RCVG CH () AC DIGITAL FAIL

SCAN POINT NAME: Receiving Channel () AC Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The loss of a proper IF input signal to the AC direction regenerator for channel () or the failure of the receiving circuits in the digital regenerator.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Take action on accompanying alarms; initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () AC TRANSMISSION ALARM and, possibly,

TMTG CH () AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL may exist at receiving terminal station; and, possibly,

TMTG CH () AC DIGITAL FAIL

TMTG CH () AC RADIO FAIL may exist at present station.

RCVG CH () AC PERFORMANCE ALARM

SCAN POINT NAME: Receiving Channel () AC Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Channel () is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Sympathetic performance alarms may be reported from stations downstream from this station.

ACCOMPANYING STATUS: RCVG CH () AC PRFRMC INTERMITTENT or
RCVG CH () AC PRFRMC ERROR RATE.

RCVG CH () AC PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Channel () AC Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () AC PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG CH () AC PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Channel () AC Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met at this station for the AC direction of channel ().

EFFECT ON SERVICE: Transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () AC PERFORMANCE ALARM. Also, stations downstream from this station may report RCVG CH () AC performance alarms.

ACCOMPANYING STATUS: None.

RCVG CH () AC PRFRMC TEST ACTIVE

SCAN POINT NAME: Receiving Channel () AC Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG CH () AC PERFORMANCE TEST control has been remotely sent to the station. The indication will exist for 15 minutes. Once the 15-minute interval begins, the performance monitors for channel () will reinstate or activate the RCVG CH () AC PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs [will also activate a RCVG CH () AC PRFRMC INTERMITTENT status scan point]
- Errors occur that result in an error rate exceeding the maintenance error rate threshold [will also activate a RCVG CH () AC PRFRMC ERROR RATE status scan point].

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG CH () AC RADIO FAIL

SCAN POINT NAME: Receiving Channel () AC Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Take action on accompanying alarms; initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG CH () AC TRANSMISSION ALARM

SCAN POINT NAME: Receiving Channel () AC Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the received RF signal is improper or a receiving digital or a receiving radio circuit has failed.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG CH () AC RADIO FAIL or
RCVG CH () AC DIGITAL FAIL
RCVG CH () SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG CH () BD DIGITAL FAIL

SCAN POINT NAME: Receiving Channel () BD Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of a proper IF input signal to the BD direction regenerator for channel () or failure of the receiving circuits in the digital regenerator.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Take action on accompanying alarms; initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () BD TRANSMISSION ALARM and, possibly,

TMTG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL may exist at receiving terminal station, and, possibly,

TMTG CH () BD DIGITAL FAIL

TMTG CH () BD RADIO FAIL may exist at present station.

RCVG CH () BD PERFORMANCE ALARM

SCAN POINT NAME: Receiving Channel () BD Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Channel () is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Sympathetic performance alarms may be reported from stations downstream from this station.

ACCOMPANYING STATUS: RCVG CH () BD PRFRMC INTERMITTENT or
RCVG CH () BD PRFRMC ERROR RATE.

RCVG CH () BD PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Channel () BD Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () BD PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG CH () BD PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Channel () BD Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met at this station for the BD direction of channel ().

EFFECT ON SERVICE: Transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () BD PERFORMANCE ALARM. Also, stations downstream from this station may report RCVG CH () AC performance alarms.

ACCOMPANYING STATUS: None.

RCVG CH () BD PRFRMC TEST ACTIVE

SCAN POINT NAME: Receiving Channel () BD Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG CH () BD PERFORMANCE TEST control has been remotely sent to the station. This indication will exist for 15 minutes. Once the 15-minute interval begins, the performance monitors for channel () will reinstate or activate the RCVG CH () BD PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs [will also activate a RCVG CH () BD PRFRMC INTERMITTENT status scan point]
- Errors occur that result in an error rate exceeding the maintenance error rate threshold [will also activate a RCVG CH () BD PRFRMC ERROR RATE status scan point].

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG CH () BD RADIO FAIL

SCAN POINT NAME: Receiving Channel () BD Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Take action on accompanying alarms; initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG CH () BD TRANSMISSION ALARM

SCAN POINT NAME: Receiving Channel () BD Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the received RF signal is improper or a receiving digital or a receiving radio circuit has failed.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG CH () BD RADIO FAIL or
RCVG CH () BD DIGITAL FAIL
RCVG CH () SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG CH () DIGITAL FAIL

SCAN POINT NAME: Receiving Channel () Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of IF input signal to the terminal for channel () or failure of the receiving circuits in the digital terminal.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () TRANSMISSION ALARM and, possibly, RCVG PROT AUTO SWITCH ALARM if service protection switching has occurred.

ACCOMPANYING STATUS: RCVG PROT IN USE and RCVG CH () LINE SWITCH or RCVG CH () SPAN SWITCH may exist if service protection switching has occurred. RCVG CH () SWITCH SECTION FAIL or RCVG CH () SWITCH SECTION PRFRMC may also exist.

RCVG CH () LINE SWITCH

SCAN POINT NAME: Receiving Channel () Line Switch.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The service normally carried by the channel () line transmission circuits has been transferred to the protection line transmission circuits. (For transmission block diagram, refer to CH () LINE SW in the "Remote System Operations" tab.)

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM. Note that the operation of the line switch does not cause service hits or errors.

SUGGESTED ACTION TO BE TAKEN: This is a switch status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: RCVG PROT AUTO SWITCH ALARM will be reported if the line switch is not a manual switch and the switch remains continuously on for 60 seconds.

ACCOMPANYING STATUS: RCVG CH () MANUAL SWITCH if switch was manually operated

RCVG CH () SWITCH SECTION FAIL or RCVG CH () SWITCH SECTION PRFRMC will exist if the switched channel is automatically requesting a line switch

RCVG PROT IN USE

TMTG CH () LINE BRIDGE TO PROT at the far-end transmitting terminal station.

RCVG CH () MANUAL LOCKOUT

SCAN POINT NAME: Receiving Channel () Manual Lockout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A channel is manually locked out either locally or remotely.

EFFECT ON SERVICE: None. However, service on a channel that is manually locked out will not be remotely alarmed or automatically protected if a transmission failure occurs.

SUGGESTED ACTION TO BE TAKEN: This is a status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

RCVG CH () MANUAL SWITCH

SCAN POINT NAME: Receiving Channel () Manual Switch.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A radio transmission channel is manually switched to protection. The manually operated switch can be either a line or a span switch.

EFFECT ON SERVICE: None. However, the protection channel is not available should other regular channels fail.

SUGGESTED ACTION TO BE TAKEN: This is a status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT IN USE

RCVG CH () LINE SWITCH and TMTG CH () LINE
BRIDGED TO PROT at the far-end transmitting
terminal station

or

RCVG CH () SPAN SWITCH and TMTG CH () SPAN
BRIDGED TO PROT at the far-end transmitting
terminal station.

RCVG CH () PERFORMANCE ALARM

SCAN POINT NAME: Receiving Channel () Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The system is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Regular channel performance alarms may be reported at stations upstream from this station.

ACCOMPANYING STATUS: RCVG CH () PRFRMC INTERMITTENT or
RCVG CH () PRFRMC ERROR RATE.

RCVG CH () PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Channel () Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver.

EFFECT ON SERVICE: Transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG CH () PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Channel () Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met at this station for the direction of channel ().

EFFECT ON SERVICE: Transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG CH () PERFORMANCE TEST ACTIVE

SCAN POINT NAME: Receiving Channel () Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG CH () PERFORMANCE TEST control has been remotely sent to the station. This indication exists for 15 minutes. Once the 15-minute interval begins, the performance monitors for channel () will reinstate or activate the RCVG CH () PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs [will also activate a RCVG CH () PRFRMC INTERMITTENT status scan point]
- Errors occur that result in an error rate exceeding the maintenance error rate threshold [will also activate a RCVG CH () PRFRMC ERROR RATE status scan point].

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG CH () PREVIOUS SECTION FAIL

SCAN POINT NAME: Receiving Channel () Previous Section Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: One or more of the transmit terminal incoming 45-Mb/s rails have failed.

EFFECT ON SERVICE: Service is interrupted due to poor quality or loss of input data in the previous switching section.

SUGGESTED ACTION TO BE TAKEN: In accordance with local procedures, notify appropriate personnel that the equipment before this radio switch section has failed.

ACCOMPANYING ALARMS: RCVG CH () TRANSMISSION ALARM and
TMTG CH () INCOMING FAIL ALARM at the far-end transmitting terminal station.

ACCOMPANYING STATUS: TMTG CH () RAIL A INCOMING FAIL
TMTG CH () RAIL B INCOMING FAIL
and/or
TMTG CH () RAIL C INCOMING ALARM at the far-end transmitting terminal station
and, possibly,
RCVG CH () SWITCH SECTION FAIL and
RCVG CH () DIGITAL FAIL.

RCVG CH () RADIO FAIL

SCAN POINT NAME: Receiving Channel () Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: Possibly, RCVG CH () SWITCH SECTION FAIL and
RCVG CH () DIGITAL FAIL.

RCVG CH () SERVICE ALARM-RAIL A

SCAN POINT NAME: Receiving Channel () Service Alarm—Rail A.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Service on the rail A 45-Mb/s signal has been lost due to a high error rate or an out-of-frame condition. The channel was unable to switch to the protection channel or the failure occurred before this switch section.

EFFECT ON SERVICE: Service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () SERVICE ALARM and, possibly,
RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL or
RCVG CH () SWITCH SECTION PRFRMC and, possibly,
RCVG CH () PREVIOUS SECTION FAIL
RCVG CH () RADIO FAIL
RCVG CH () DIGITAL FAIL.

RCVG CH () SERVICE ALARM-RAIL B

SCAN POINT NAME: Receiving Channel () Service Alarm—Rail B.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Service on the rail B 45-Mb/s signal has been lost due to a high error rate or an out-of-frame condition. The channel was unable to switch to the protection channel or the failure occurred before this switch section.

EFFECT ON SERVICE: Service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () SERVICE ALARM and, possibly,
RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL or
RCVG CH () SWITCH SECTION PRFRMC and, possibly,
RCVG CH () PREVIOUS SECTION FAIL
RCVG CH () RADIO FAIL
RCVG CH () DIGITAL FAIL.

RCVG CH () SERVICE ALARM-RAIL C

SCAN POINT NAME: Receiving Channel () Service Alarm—Rail C.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Service on the rail C 45-Mb/s signal has been lost due to a high error rate or an out-of-frame condition. The channel was unable to switch to the protection channel or the failure occurred before this switch section.

EFFECT ON SERVICE: Service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG CH () SERVICE ALARM and, possibly,
RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SWITCH SECTION FAIL or
RCVG CH () SWITCH SECTION PRFRMC and, possibly,
RCVG CH () PREVIOUS SECTION FAIL
RCVG CH () RADIO FAIL
RCVG CH () DIGITAL FAIL.

RCVG CH () SERVICE ALARM

SCAN POINT NAME: Receiving Channel () Service Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Service has been lost due to a high-error rate or an out-of-frame condition. The regular channel was unable to switch to the protection channel or the failure occurred before this switch section.

EFFECT ON SERVICE: Service has failed on one or more 45-Mb/s rails.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Possibly, RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG CH () SERVICE ALARM-RAIL A
RCVG CH () SERVICE ALARM-RAIL B
RCVG CH () SERVICE ALARM-RAIL C will exist as appropriate and
RCVG CH () SWITCH SECTION FAIL or
RCVG CH () SWITCH SECTION PRFRMC and, possibly,
RCVG CH () RADIO FAIL or
RCVG CH () DIGITAL FAIL or
RCVG CH () PREVIOUS SECTION FAIL.

RCVG CH () SPAN SWITCH

SCAN POINT NAME: Receiving Channel Span Switch.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The service normally carried by the channel () terminating and line transmission circuits has been transferred to the protection terminating and line transmission circuits. (For transmission path block diagram, refer to CH () SPAN SW in the " Remote System Operations" tab.)

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM. Note that operation of the span switch causes a momentary error burst (misframe).

SUGGESTED ACTION TO BE TAKEN: This is a switch status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: RCVG PROT AUTO SWITCH ALARM will be reported if the span switch is not a manual switch.

ACCOMPANYING STATUS: RCVG CH () MANUAL SWITCH will be reported if switch was manually operated

RCVG PROT IN USE

TMTG CH () SPAN BRIDGE TO PROT at the far-end transmitting terminal station.

RCVG CH () SWITCH SECTION FAIL

SCAN POINT NAME: Receiving Channel () Switch Section Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The switch section transmission performance of the channel () is unacceptable for service. (An out-of-frame condition exists.)

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: This is a transmission status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: RCVG PROT AUTO SWITCH ALARM or
RCVG CH () SERVICE ALARM and, possibly,
RCVG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: Possibly RCVG CH () LINE SWITCH or
RCVG CH () SPAN SWITCH.

RCVG CH () SWITCH SECTION PRFRMC

SCAN POINT NAME: Receiving Channel () Switch Section Performance.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The switch section transmission performance is only marginally acceptable for service. (Bit error rate is worse than 10^{-6} , but transmission is still in-frame.)

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: This is a transmission status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: RCVG PROT AUTO SWITCH ALARM or
RCVG CH () SERVICE ALARM.

ACCOMPANYING STATUS: Possibly RCVG CH () LINE SWITCH or
RCVG CH () SPAN SWITCH.

RCVG CH () TRANSMISSION ALARM

SCAN POINT NAME: Receiving Channel () Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the received RF signal is improper or a receiving digital or radio circuit has failed.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: Either RCVG CH () RADIO FAIL or
RCVG CH () DIGITAL FAIL and, possibly,
RCVG CH () PREVIOUS SECTION FAIL or
RCVG CH () SWITCH SECTION FAIL
RCVG CH () LINE SWITCH
RCVG CH () SPAN SWITCH.

RCVG PROT AC DIGITAL FAIL

SCAN POINT NAME: Receiving Protection AC Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of a proper IF input signal to the AC direction regenerator for protection channel or failure of the receiving circuits in the digital regenerator.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL may exist at receiving terminal station and, possibly, at this station

TMTG PROT AC DIGITAL FAIL

TMTG PROT AC RADIO FAIL.

RCVG PROT AC PERFORMANCE ALARM

SCAN POINT NAME: Receiving Protection AC Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The protection channel is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: If the AC direction protection channel is in use because of a line switch, span switch, or access switch, transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Protection channel performance alarms may be reported from stations downstream from this station.

ACCOMPANYING STATUS: RCVG PROT AC PRFRMC INTERMITTENT or
RCVG PROT AC PRFRMC ERROR RATE.

RCVG PROT AC PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Protection AC Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver on the AC direction protection channel.

EFFECT ON SERVICE: If the AC direction protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT AC PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT AC PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Protection AC Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met at this station for the AC direction of the protection channel.

EFFECT ON SERVICE: If the AC direction protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT AC PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT AC PRFRMC TEST ACTIVE

SCAN POINT NAME: Receiving Protection AC Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG PROT AC PRFRMC TEST control has been remotely sent to this station. This indication exists for 15 minutes. Once the 15-minute interval begins, the performance monitors for the protection channel will reinstate or activate the RCVG PROT AC PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs (will also activate a RCVG PROT AC PRFRMC INTERMITTENT status scan point)
- Errors occur that result in an error rate exceeding the maintenance error rate threshold (will also activate a RCVG PROT AC PRFRMC ERROR RATE status scan point).

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG PROT AC RADIO FAIL

SCAN POINT NAME: Receiving Protection AC Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the protection channel radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG PROT AC TRANSMISSION ALARM

SCAN POINT NAME: Receiving Protection AC Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the protection channel received RF signal is improper or a receiving digital or receiving radio circuit has failed.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT AC RADIO FAIL or
RCVG PROT AC DIGITAL FAIL
RCVG PROT SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG PROT ACCESS PREEMPTIBLE

SCAN POINT NAME: Receiving Protection Access Preemptible.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The receive access switch is in the preemptible mode, and therefore, the protection channel remains available for use by any regular channel that requires protection.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT ACCESS SWITCH

RCVG PROT IN USE

TMTG PROT ACCESS BRIDGED TO PROT at the far-end transmitting terminal station.

RCVG PROT ACCESS SERVICE ALARM

SCAN POINT NAME: Receiving Protection Access Service Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The access service on the protection channel has a high error rate or an out-of-frame condition that is caused by either failure of the protection channel or a failure before this switch section.

EFFECT ON SERVICE: Access service has failed on one or more 45-Mb/s rails.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Possibly, RCVG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG PROT RAIL A SERVICE ALARM and
RCVG PROT RAIL B SERVICE ALARM and
RCVG PROT RAIL C SERVICE ALARM will exist as
appropriate and
RCVG PROT SWITCH SECTION FAIL or
RCVG PROT SWITCH SECTION PRFRMC and, possibly,
RCVG PROT RADIO FAIL or
RCVG PROT DIGITAL FAIL.

RCVG PROT ACCESS SWITCH

SCAN POINT NAME: Receiving Protection Access Switch.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The protection channel terminating and line transmission circuits have been connected to the access service inputs and outputs.

EFFECT ON SERVICE: None. However, the protection channel is not available for a regular channel switch unless this status is accompanied by a RCVG PROT ACCESS PREEMPTIBLE scan point.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT IN USE

TMTG PROT ACCESS BRIDGE TO PROT at the far-end transmitting terminal station and, possibly,

RCVG PROT ACCESS PREEMPTIBLE.

RCVG PROT AUTO SWITCH ALARM

SCAN POINT NAME: Receiving Protection Automatic Switch Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either failure of a regular channel's terminating circuits has caused an automatic switch to protection or a regular channel's line transmission circuits have failed and caused an automatic switch to protection that has lasted continuously for 60 seconds. The 60-second delay is to assure that the automatic line switch was not a result of fading.

EFFECT ON SERVICE: None, unless accompanied by RCVG CH () SERVICE ALARM. The protection is in use and will not be available should another regular channel fail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: Either RCVG CH () SWITCH SECTION FAIL or
RCVG CH () SWITCH SECTION PRFRMC and
RCVG PROT IN USE and
Either RCVG CH () LINE SWITCH or
RCVG CH () SPAN SWITCH.

The far-end transmitting terminal station will have either:

TMTG CH () LINE BRIDGED TO PROT or

TMTG CH () SPAN BRIDGED TO PROT.

RCVG PROT BD DIGITAL FAIL

SCAN POINT NAME: Receiving Protection BD Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of a proper IF input signal to the BD direction regenerator for protection channel or failure of the receiving circuits in the digital regenerator.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL may exist at receiving terminal station and, possibly, at this station

TMTG PROT BD DIGITAL FAIL and

TMTG PROT BD RADIO FAIL.

RCVG PROT BD PERFORMANCE ALARM

SCAN POINT NAME: Receiving Protection BD Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The protection channel is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: If the BD direction protection channel is in use because of a line switch, span switch, or access switch, transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Protection channel performance alarms may be reported from stations downstream from this station.

ACCOMPANYING STATUS: RCVG PROT BD PRFRMC INTERMITTENT or
RCVG PROT BD PRFRMC ERROR RATE.

RCVG PROT BD PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Protection BD Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver on the BD direction protection channel.

EFFECT ON SERVICE: If the BD direction protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT BD PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT BD PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Protection BD Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met at this station for the BD direction of the protection channel.

EFFECT ON SERVICE: If the BD direction protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT BD PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT BD PRFRMC TEST ACTIVE

SCAN POINT NAME: Receiving Protection BD Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG PROT BD PRFRMC TEST control has been remotely sent to this station. This indication will exist for 15 minutes. Once the 15-minute interval begins, the performance monitors for the protection channel will reinstate or activate the RCVG PROT BD PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs (will also activate a RCVG PROT BD PRFRMC INTERMITTENT status scan point)
- Errors occur that result in an error rate exceeding the maintenance error rate threshold (will also activate a RCVG PROT BD PRFRMC ERROR RATE status scan point).

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG PROT BD RADIO FAIL

SCAN POINT NAME: Receiving Protection BD Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the protection channel radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG PROT BD TRANSMISSION ALARM

SCAN POINT NAME: Receiving Protection BD Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the RF signal received by the protection channel is improper or a receiving digital or receiving radio circuit has failed.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT BD RADIO FAIL or
RCVG PROT BD DIGITAL FAIL
RCVG PROT SWITCH SECTION FAIL (may exist at receiving end terminal station).

RCVG PROT DIGITAL FAIL

SCAN POINT NAME: Receiving Protection Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of a proper IF input signal to the terminal for protection or failure of the receiving circuits in the digital terminal.

EFFECT ON SERVICE: None, unless protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: Possibly RCVG PROT SWITCH SECTION FAIL or
RCVG PROT RADIO FAIL.

RCVG PROT IN USE

SCAN POINT NAME: Receiving Protection in Use.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The protection channel is in use, providing either a line switch, span switch, or access switch.

EFFECT ON SERVICE: None, unless accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: RCVG PROT AUTO SWITCH ALARM (if a regular channel failure exists).

ACCOMPANYING STATUS: RCVG CH () MANUAL SWITCH or
RCVG PROT ACCESS PREEMPTIBLE
RCVG PROT ACCESS SWITCH or
RCVG CH () LINE SWITCH
RCVG CH () SPAN SWITCH

At the far end transmitting terminal station either:

TMTG CH () LINE BRIDGED TO PROT or
TMTG CH () SPAN BRIDGED TO PROT or
TMTG PROT ACCESS BRIDGED TO PROT.

RCVG PROT MANUAL LOCKOUT

SCAN POINT NAME: Receiving Protection Manual Lockout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The protection channel has been manually locked out either locally or remotely.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM. However, if a regular channel should fail, the protection is not available for the regular channel to automatically switch.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

RCVG PROT PERFORMANCE ALARM

SCAN POINT NAME: Receiving Protection Performance Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The protection channel is not meeting its maintenance limit objectives for error rate or intermittent error bursts.

EFFECT ON SERVICE: If the protection channel is in use because of a line switch, span switch, or access switch, transmission services that demand excellent error rate performance are being adversely affected. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Protection channel performance alarms may be reported at stations upstream from this station.

ACCOMPANYING STATUS: RCVG PROT PRFRMC INTERMITTENT or
RCVG PROT PRFRMC ERROR RATE.

RCVG PROT PRFRMC ERROR RATE

SCAN POINT NAME: Receiving Protection Performance Error Rate.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for error rate is not being met by transmission circuits between the previous regenerator or terminal transmitter and this digital receiver on the protection channel.

EFFECT ON SERVICE: If the protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand excellent error rate performance are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT PRFRMC INTERMITTENT

SCAN POINT NAME: Receiving Protection Performance Intermittent.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The maintenance limit objective for intermittent bursts of errors worse than 10^{-5} or misframes is not being met for the protection channel at this station.

EFFECT ON SERVICE: If the protection channel is in use because of a line switch, span switch, or access switch, then transmission services that demand freedom from intermittent error bursts are being adversely affected.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT PERFORMANCE ALARM.

ACCOMPANYING STATUS: None.

RCVG PROT PRFRMC TEST ACTIVE

SCAN POINT NAME: Receiving Protection Performance Test Active.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A RCVG PROT PRFRMC TEST control has been remotely sent to this station. This indication exists for 15 minutes. Once the 15-minute interval begins, the performance monitors for the protection channel will reinstate or activate the RCVG PROT PERFORMANCE ALARM and the associated status indication that caused the alarm if:

- A single out-of-frame event occurs (will also activate a RCVG PROT PRFRMC INTERMITTENT status scan point)
- Errors occur that result in an error rate exceeding the maintenance error rate threshold (will also activate a RCVG PROT PRFRMC ERROR RATE status scan point).

After 15 minutes if one or more of the above scan points have not been reported, the channel meets performance objectives. The performance monitor will reset, and a new 24-hour evaluation period will start. If additional information is required, refer to the Continuous Performance Monitoring section under the "Test" tab in the Maintenance Support O&M manual.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: See CONDITION CAUSING INDICATION above.

ACCOMPANYING STATUS: See CONDITION CAUSING INDICATION above.

RCVG PROT RADIO FAIL

SCAN POINT NAME: Receiving Protection Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Loss of RF input signal to the radio receiver or failure of a radio receiver circuit.

EFFECT ON SERVICE: None, unless protection channel is in use and is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: Possibly RCVG PROT SWITCH SECTION FAIL or
RCVG PROT DIGITAL FAIL.

RCVG PROT RAIL A SERVICE ALARM

SCAN POINT NAME: Receiving Protection Rail A Service Alarm.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Access service on the rail A 45-Mb/s signal has been lost due to a high error rate on an out-of-frame condition. Either protection channel transmission has failed or a failure occurred before this switch section.

EFFECT ON SERVICE: Access service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT ACCESS SERVICE ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL or
RCVG PROT SWITCH SECTION PRFRMC and, possibly,
RCVG PROT RADIO FAIL
RCVG PROT DIGITAL FAIL.

RCVG PROT RAIL B SERVICE ALARM

SCAN POINT NAME: Receiving Protection Rail B Service Alarm.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Access service on the rail B 45-Mb/s signal has been lost due to a high error rate on an out-of-frame condition. Either protection channel transmission has failed or a failure occurred before this switch section.

EFFECT ON SERVICE: Access service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT ACCESS SERVICE ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL or
RCVG PROT SWITCH SECTION PRFRMC and, possibly,
RCVG PROT RADIO FAIL
RCVG PROT DIGITAL FAIL.

RCVG PROT RAIL C SERVICE ALARM

SCAN POINT NAME: Receiving Protection Rail C Service Alarm.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Access service on the rail C 45-Mb/s signal has been lost due to a high error rate on an out-of-frame condition. Either protection channel transmission has failed or a failure occurred before this switch section.

EFFECT ON SERVICE: Access service has failed on this 45-Mb/s rail.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: RCVG PROT ACCESS SERVICE ALARM.

ACCOMPANYING STATUS: RCVG PROT SWITCH SECTION FAIL or
RCVG PROT SWITCH SECTION PRFRMC and, possibly,
RCVG PROT RADIO FAIL
RCVG PROT DIGITAL FAIL.

RCVG PROT SWITCH SECTION FAIL

SCAN POINT NAME: Receiving Protection Switch Section Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The switch section transmission performance of the protection channel is unacceptable for service. (An out-of-frame condition exists.)

EFFECT ON SERVICE: None, unless accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: This is a transmission status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: Possibly RCVG PROT TRANSMISSION ALARM and/or RCVG PROT ACCESS SERVICE ALARM.

ACCOMPANYING STATUS: Possibly RCVG PROT RADIO FAIL or RCVG PROT DIGITAL FAIL.

RCVG PROT SWITCH SECTION PRFRMC

SCAN POINT NAME: Receiving Protection Switch Section Performance.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The switch section transmission performance of the protection channel is only marginally acceptable for service. (Bit error rate is worse than 10^{-6} , but transmission is still in-frame.)

EFFECT ON SERVICE: None, unless accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM. However, the protection channel will provide only marginally acceptable transmission.

SUGGESTED ACTION TO BE TAKEN: This is a transmission status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: Possibly RCVG PROT TRANSMISSION ALARM and/or
RCVG PROT ACCESS SERVICE ALARM.

ACCOMPANYING STATUS: Possibly RCVG PROT RADIO FAIL or
RCVG PROT DIGITAL FAIL.

RCVG PROT TRANSMISSION ALARM

SCAN POINT NAME: Receiving Protection Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the RF signal received from the protection channel is improper or a receiving digital or radio circuit has failed.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: Either RCVG PROT RADIO FAIL or
RCVG PROT DIGITAL FAIL will exist and, possibly,
RCVG PROT SWITCH SECTION FAIL.

RCVG RADIO AC RF PREAMP FAIL

SCAN POINT NAME: Receiving Radio AC RF Preamp Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: One or more of the common waveguide RF preamplifiers in the AC direction have failed.

EFFECT ON SERVICE: Should have no immediate effect on service; however, there will be less tolerance to fading. Replacement of the failed unit may cause a momentary service interruption.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to replace failed unit.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

RCVG RADIO BD RF PREAMP FAIL

SCAN POINT NAME: Receiving Radio BD RF Preamp Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: One or more of the common waveguide RF preamplifiers in the BD direction have failed.

EFFECT ON SERVICE: Should have no immediate effect on service; however, there will be less tolerance to fading. Replacement of the failed unit may cause a momentary service interruption.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to replace failed unit.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

RCVG RADIO RF PREAMP FAIL

SCAN POINT NAME: Receiving Radio RF Preamplifier Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: One or more of the common waveguide RF preamplifiers have failed.

EFFECT ON SERVICE: No immediate effect on service; however, there will be less tolerance to fading. Replacement of the failed unit may cause a momentary service interruption.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to replace failed unit.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

TERM CONTROL SYSTEM ALARM

SCAN POINT NAME: Terminal Control System Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: A failure of the terminal control system or protection switching equipment. The control shelf controller, a transmission shelf channel controller, or a protection switch circuit may have failed.

EFFECT ON SERVICE: None, unless a transmission failure occurs. However, the capability to perform switching or properly report scan points may be lost as long as this alarm is present.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: Some types of failures that generate this alarm will cause switch signaling failure scan points to be reported from the other terminal and a regenerator station.

ACCOMPANYING STATUS: None.

TERM FAN FAIL

SCAN POINT NAME: Terminal Fan Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: The failure of one or more of the terminal bay cooling fans.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

TERM ORDER WIRE OFF-HOOK

SCAN POINT NAME: Terminal Order Wire Off-Hook.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The order wire is off-hook because in the reporting station either a telephone set is off-hook or a headset is plugged in and the push-to-operate key on the microphone is operated.

EFFECT ON SERVICE: None. Order-wire dial tone will not operate.

SUGGESTED ACTION TO BE TAKEN: If the order wire is not in use, request the technician to hang it up.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

TERM SWITCH SIGNALING FAIL

SCAN POINT NAME: Terminal Switch Signaling Failure.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Switch signaling is not being received on the service channel. (Switch signaling comes from the far end terminal and, if equipped, the preceding regenerator.)

EFFECT ON SERVICE: None. However, service protection or service channel switching capability may be lost and order-wire off-hook signaling may not work properly.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: None.

TMTG CH () AC DIGITAL FAIL

SCAN POINT NAME: Transmitting Channel () AC Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting digital regenerator circuits in the AC direction of transmission.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () AC RADIO FAIL may exist at station.

TMTG CH () AC RADIO FAIL

SCAN POINT NAME: Transmitting Channel () AC Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the radio transmitter or loss of the IF input signal to the radio in the AC direction of transmission.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () AC DIGITAL FAIL may exist at station.

TMTG CH () AC RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Channel () AC Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier in the AC direction of transmission is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG CH () AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () AC TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Channel () AC Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either a transmitting digital or a radio circuit has failed in the AC direction of transmission or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read TMTG CH () AC RADIO TWT WEAROUT explanation, if appropriate.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG CH () AC RADIO FAIL or
TMTG CH () AC DIGITAL FAIL or
TMTG CH () AC RADIO TWT WEAROUT.

TMTG CH () BD DIGITAL FAIL

SCAN POINT NAME: Transmitting Channel () BD Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting digital regenerator circuits in the BD direction of transmission.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () BD RADIO FAIL may exist at station.

TMTG CH () BD RADIO FAIL

SCAN POINT NAME: Transmitting Channel () BD Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the radio transmitter or loss of the IF input signal to the radio in the BD direction of transmission.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () BD DIGITAL FAIL may exist at station.

TMTG CH () BD RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Channel () BD Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier in the BD direction of transmission is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () BD TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Channel () BD Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either a transmitting digital or radio circuit has failed in the BD direction of transmission or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read TMTG CH () BD RADIO TWT WEAROUT explanation.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG CH () BD RADIO FAIL or
TMTG CH () BD DIGITAL FAIL or
TMTG CH () BD RADIO TWT WEAROUT.

TMTG CH () DIGITAL FAIL

SCAN POINT NAME: Transmitting Channel () Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting digital circuits.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () RADIO FAIL may exist at station.

TMTG CH () INCOMING FAIL ALARM

SCAN POINT NAME: Transmitting Channel () Incoming Failure Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: One or more of the incoming 45-Mb/s rails have failed in the equipment before this switch section.

EFFECT ON SERVICE: Service has failed and can be confirmed by checking the previous switching section for service alarms.

SUGGESTED ACTION TO BE TAKEN: In accordance with local procedures, notify appropriate personnel that equipment before this radio switch section has failed.

ACCOMPANYING ALARMS: TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () RAIL A INCOMING FAIL

TMTG CH () RAIL B INCOMING FAIL

TMTG CH () RAIL C INCOMING FAIL, as appropriate,

RCVG CH () PREVIOUS SECTION FAIL at the far-end receiving terminal station and, possibly,

RCVG CH () SWITCH SECTION FAIL at the far-end receiving terminal station.

TMTG CH () LINE BRIDGED TO PROT

SCAN POINT NAME: Transmitting Channel () Line Bridged to Protection.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Channel () has been bridged to the protection channel.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: This is a status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: Possibly, RCVG CH () LINE SWITCH at the far-end receiving terminal station.

TMTG CH () RADIO FAIL

SCAN POINT NAME: Transmitting Channel () Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the radio transmitter or loss of the IF input signal to the radio.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG CH () DIGITAL FAIL may exist at station.

TMTG CH () RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Channel () Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () RAIL A INCOMING FAIL

SCAN POINT NAME: Transmitting Channel () Rail A Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s incoming rail A signal is improper or the rail A digital input circuit has failed.

EFFECT ON SERVICE: Rail A service has failed. This can be confirmed by checking the previous switching section for service alarms.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: TMTG CH () INCOMING FAILURE ALARM and
TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () RAIL B INCOMING FAIL

SCAN POINT NAME: Transmitting Channel () Rail B Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s incoming rail B signal is improper or the rail B digital input circuit has failed.

EFFECT ON SERVICE: Rail B service has failed. This can be confirmed by checking the previous switching section for service alarms.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: TMTG CH () INCOMING FAILURE ALARM and
TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () RAIL C INCOMING FAIL

SCAN POINT NAME: Transmitting Channel () Rail C Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s incoming rail C signal is improper or the rail C digital input circuit has failed.

EFFECT ON SERVICE: Rail C service has failed. This can be confirmed by checking the previous switching section for service alarms.

SUGGESTED ACTION TO BE TAKEN: Initiate repair using the Alarm Analysis and Dispatch Decision Flowchart.

ACCOMPANYING ALARMS: TMTG CH () INCOMING FAILURE ALARM and
TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG CH () SPAN BRIDGED TO PROT

SCAN POINT NAME: Transmitting Channel () Span Bridged to Protection.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Channel () has been bridged to the protection channel.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: This is a status indication; take action on any accompanying alarms.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: Possibly, RCVG CH () SPAN SWITCH at the far-end receiving terminal station.

TMTG CH () TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Channel () Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either a transmitting digital or a radio circuit has failed, or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless accompanied by a RCVG CH () SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read TMTG CH () RADIO TWT WEAROUT explanation, if appropriate.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG CH () RADIO FAIL or
TMTG CH () DIGITAL FAIL or
TMTG CH () RADIO TWT WEAROUT.

TMTG PROT AC DIGITAL FAIL

SCAN POINT NAME: Transmitting Protection AC Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting protection channel digital regenerator circuits in the AC direction of transmission.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT AC RADIO FAIL may exist at station.

TMTG PROT AC RADIO FAIL

SCAN POINT NAME: Transmitting Protection AC Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the protection channel radio transmitter or loss of the IF input signal to the radio in the AC direction of transmission.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT AC DIGITAL FAIL may exist at station.

TMTG PROT AC RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Protection AC Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier in the AC direction of transmission is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG PROT AC TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG PROT AC TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Protection AC Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the protection channel transmitting digital or radio circuits has failed in the AC direction of transmission or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless AC direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read RCVG PROT AC RADIO TWT WEAROUT explanation, if appropriate.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG PROT AC RADIO FAIL or
TMTG PROT AC DIGITAL FAIL or
TMTG PROT AC RADIO TWT WEAROUT.

TMTG PROT ACCESS BRIDGED TO PROT

SCAN POINT NAME: Transmitting Protection Access Bridged to Protection.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmit access switch is operated so that access service is being fed to the protection channel.

EFFECT ON SERVICE: None. However, the protection channel is not available for a regular channel switch unless this status is accompanied by a RCVG PROT ACCESS PREEMPTIBLE scan point at the receiving end terminal station.

SUGGESTED ACTION TO BE TAKEN: None.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: RCVG PROT ACCESS SWITCH at the far-end receiving terminal station

RCVG PROT IN USE at the far-end receiving terminal station.

TMTG PROT BD DIGITAL FAIL

SCAN POINT NAME: Transmitting Protection BD Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting protection channel digital regenerator circuits in the BD direction of transmission.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT BD RADIO FAIL may exist at station.

TMTG PROT BD RADIO FAIL

SCAN POINT NAME: Transmitting Protection BD Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the protection channel radio transmitter or loss of the IF input signal to the radio in the BD direction of transmission.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT BD DIGITAL FAIL may exist at station.

TMTG PROT BD RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Protection BD Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier in the BD direction of transmission is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG CH () BD TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG PROT BD TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Protection BD Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either the protection channel transmitting digital or radio circuits have failed in the BD direction of transmission or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless BD direction protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read RCVG PROT BD RADIO TWT WEAROUT explanation, if appropriate.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG PROT BD RADIO FAIL or
TMTG PROT BD DIGITAL FAIL or
TMTG PROT BD RADIO TWT WEAROUT.

TMTG PROT DIGITAL FAIL

SCAN POINT NAME: Transmitting Protection Digital Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: A failure of the transmitting protection channel digital circuits.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT RADIO FAIL may exist at station.

TMTG PROT RADIO FAIL

SCAN POINT NAME: Transmitting Protection Radio Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The failure of the protection channel radio transmitter or loss of the IF input signal to the radio.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure.

ACCOMPANYING ALARMS: TMTG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT DIGITAL FAIL may exist at station.

TMTG PROT RADIO TWT WEAROUT

SCAN POINT NAME: Transmitting Protection Radio TWT Wearout.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: The transmitting TWT RF power amplifier is close to being worn out.

EFFECT ON SERVICE: None.

SUGGESTED ACTION TO BE TAKEN: Schedule replacement of TWT in accordance with local procedures.

ACCOMPANYING ALARMS: TMTG CH () TRANSMISSION ALARM.

ACCOMPANYING STATUS: None.

TMTG PROT RAIL A INCOMING FAIL

SCAN POINT NAME: Transmitting Protection Rail A Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s rail A signal being fed to protection is improper or the rail A digital input circuit has failed while in the access or access preemptible mode.

EFFECT ON SERVICE: None, unless the protection channel is in use and the alarm is accompanied by a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: This is a status indication. Act on any accompanying alarms.

ACCOMPANYING ALARMS: TMTG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT ACCESS BRIDGED TO PROT.

TMTG PROT RAIL B INCOMING FAIL

SCAN POINT NAME: Transmitting Protection Rail B Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s rail B signal being fed to protection is improper or the rail B digital input circuit has failed while in the access or access preemptible mode.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: This is a status indication. Act on any accompanying alarms.

ACCOMPANYING ALARMS: TMTG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT ACCESS BRIDGED TO PROT.

TMTG PROT RAIL C INCOMING FAIL

SCAN POINT NAME: Transmitting Protection Rail C Incoming Failure.

PROCESSING TYPE: Status.

CONDITION CAUSING INDICATION: Either the 45-Mb/s rail C signal being fed to protection is improper or the rail C digital input circuit has failed while in the access or access preemptible mode.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: This is a status indication. Act on any accompanying alarms.

ACCOMPANYING ALARMS: TMTG PROT TRANSMISSION ALARM.

ACCOMPANYING STATUS: TMTG PROT ACCESS BRIDGED TO PROT.

TMTG PROT TRANSMISSION ALARM

SCAN POINT NAME: Transmitting Protection Transmission Alarm.

PROCESSING TYPE: Alarm.

CONDITION CAUSING INDICATION: Either a transmitting digital or a radio circuit has failed or a TWT RF power amplifier is indicating wearout.

EFFECT ON SERVICE: None, unless protection channel is in use and the alarm is accompanied by either a RCVG CH () SERVICE ALARM or a RCVG PROT ACCESS SERVICE ALARM at the far-end receiving terminal station.

SUGGESTED ACTION TO BE TAKEN: Send technician to station to repair failure. Read TMTG PROT RADIO TWT WEAROUT explanation, if appropriate.

ACCOMPANYING ALARMS: None.

ACCOMPANYING STATUS: TMTG PROT RADIO FAIL or
TMTG PROT DIGITAL FAIL or
TMTG PROT RADIO TWT WEAROUT.

ISSUING ORGANIZATION

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