ALARMS FOR PERIPHERAL EQUIPMENT

1. **GENERAL**

1.01   This practice:

● Lists the alarms for peripheral equipment.

● Identifies the alarm as:

- Major or minor.
- Audible.
- Visible on a shelf or bay or aisle.

● Designates if the alarm

- Can be reset.

- Requires remote monitoring during unstaffed periods at. any location specified by the telephone operating company (Telco).

     NOTE: If the central office (CO) is stafted 24 hours a day, remote monitoring is not required.

2. **ACRONYMS AND DEFINITIONS**

2.01   **AIR DRYER** · Indicates a fault in the air dryer cable pressurization system at the reporting CO.

2.02   **AIR PRESSURE** · Indicates a protected cable has lost pressure, suggesting a cut or broken sheath.

2.03   **CARS** · Centralized Alarm Reporting System

2.04   **CFB** · Carrier Fuse Bay

2.05   **CO** · Central Office

2.06   **DFB** · Distribution Fuse Bay

2.07   **ESR** · Equipment Supervisory Rack

2.08   **MANHOLE** · Indicates that a manhole at a location identified on the manhole alarm log for CCT XX has flooded or is in jeopardy.

2.09   **TELCO** · Telephone Operating Company

3. **OVERVIEW**

3.01   The types of alarm indications are not defined in this practice because they can vary with the manufacturer. Therefore:

THIS TYPE OF INDICATION. ..	MAY BE. ..
Visible	In lamps of various colors.
Audible	A bell, gong, buzzer, chime, horn, etc.

3.02   Consult the manufacturer's documentation and job drawings for:

● Details about the specific equipment.
● The wiring of alarms.

3.03   Alarms for remote monitoring are arranged by using:

● Alarm sending equipment (originating end).

● Alarm receiving equipment (terminating end).

3.04   Use a centralized alarm reporting system (CARS); e.g., ADC 2111, Lenkurt System 51. The Telco's needs will determine the type to use.

3.05   Remote capability should be available.

3.06   Local requirements will determine whether an alarm indication will be extended.

References

3.07   Other practices dealing with equipment

alarms are:

NUMBER	TITLE
205-000-000	Equipment Alarms Overview
205-000-001	Alarms for Electromechanical Switching Equipment
205-000-002	Alarms for Electronic Switching Equipment
205-000-003	Alarms for Toll Equipment
205-000-004	Alarms for Carrier and Radio Facilities

205-000-005	Alarms for Switching Equipment Support Systems

4. TYPES OF ALARMS FOR PERIPHERAL EQUIPMENT

4.01   All of the various types of alarms in this part are:

- Visible *on* a shelf or bay.
- Audible.

Peripheral Equipment

4.02   Exhibit 1 lists the peripheral equipment alarms.

Peripheral Equipment Alarms

TYPE OF ALARM	IS THE ALARM VISIBLE ON THE AISLE?	STATUS	IS THE ALARM RESETTABLE?	IS REMOTE MONITORING REQUIRED?
Alarm Battery Fuse	Yes	Major	Yes	Yes
Circuit Breaker Trip	No	Major	Yes	Yes
Commercial Power Failure with Automatic Transfer to Standby	No	Minor	Yes	Yes
Commercial Power failure w/o Automatic Transfer to Standby	No	Major	Yes	Yes
Emergency Generator Failure	---	Minor*	No	Yes
End Cell Switch	No	Minor*	Yes	No
Float Voltage Out of Limits (High or Low)	No	Minor	Yes	No
Heat Coil	No	Minor	Yes	No
Interrupter Fuse	Yes	Minor	Yes	No
Marking Lead	No	Minor	Yes	No
Non-Service Affecting Equipment Fuse	Yes	Minor	Yes	No
Plant Voltage Out of Limits (High or Low)	No	Major	Yes	Yes
Power Board Fuse	No	Major	Yes	Yes
Primary Power Distribution Fuse	No	Major	Yes	Yes

Exhibit 1 (Continued)

Peripheral Equipment Alarms (Continued)

TYPE OF ALARM	IS THE ALARM VISIBLE ON THE AISLE?	STATUS	IS THE ALARM RESETTABLE?	IS REMOTE MONITORING REQUIRED?
Rectifier Failure With Redundancy	No	Minor	Yes	Yes
Rectifier Failure Redundancy	No	Major	Yes	Yes
Ringing Machine Tranfer	No	Minor	Yes	No
Ringing Relay Fuse	Yes	Minor	Yes	No
Ringing Supply Fuse	No	Minor	Yes	No
Service Affecting Equipment Fuse	Yes	Major	Yes	Yes
Supervisory Fuse	Yes	Minor	Yes	No
Tone Transfer	Yes	Minor	Yes	No
Total Interrupter Machine Failure	Yes	Major	Yes	Yes
Total Ringing Machine Failure	Yes	Major	Yes	Yes
Total Tone Failure	Yes	Major	Yes	Yes

* Manufacturer designed the alarm as major, but GTE's recommended standard is minor.

Exhibit 1

Power Distribution Panel

4.03   The power distribution panel alarms are as follows:

- Carrier Fuse Bay (CFB) Fuse.
- Distribution Fuse Panel (DFP) Fuse.
- Equipment Supervisory Rack (ESR) Fuse.

4.04   These alarms require remote monitoring and are:

- Visible on a shelf or bay and aisle.
- Audible
- Major.
- Not resettable.

<u>All Switches</u>

4.05   The alarms applying to any switch in any CO are:

- Visible on the shelf or bay and aisle.

- Audible.

- Not resettable.

4.06   The alarms are as follows:

TYPE OF ALARM	STATUS	IS REMOTE MONITORING REQUIRED?
AIR DRYER Fail Alarm Float Meter	Major* Minor	Yes No
CABLE VAULT Sump Pump Failure	Major	Yes

*   Manufacturer designed the alarm as minor, but GTE's recommended standard is major.