ALARMS FOR TOLL SWITCHING EQUIPMENT

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1. GENERAL

1.01 This practice:

- Lists the alarms for toll switching equipment.
- Identifies if an alarm is:
  - Major or minor.
  - Visible on a shelf or bay or aisle.
  - Audible.
- Desiqnates if an alarm:
  - Can be reset.
  - Requires remote monitoring durinq unstaffed periods at any location specified by the telephone operating company (Telco).

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

2. DEFINITIONS AND ACRONYMS

2.01 ACDP - Automatic Control Data Panel.

2.02 AISLE POWER FEED - This major power alarm indicates that the main fuse which supplies a complete aisle of equipment is blown.

2.03 CMC - Indicates that one or more of the units within the Control Memory Complex being out of service could constitute a threatening condition.

2.04 CMC MAJOR - This major power alarm indicates the loss of the main fuse which supplies the Central Memory Complex.

2.05 CMC MINOR - This minor power alarm indicates that one particular piece of equipment is put out of service in the Control Memory Complex due to a loss of DC power. This can possibly generate a CMC major alarm.

2.06 CO - Central office.

2.07 INPUT-OUTPUT (I/O) ACCESS FRAME - This alarm indicates that one input/output frame is out of service (i.e., loss of teletypes [TTYs] and one magnetic tape unit [MTU]).

2.08 MAGNETIC TAPE UNIT (MTU) - This major alarm indicates a loss of one or more of the magnetic tape units (i.e., TSPS billing information).

2.09 MAIN AISLE MAJOR - This major power alarm indicates that a main fuse in the equipment frame is blown (e.g., electromechanical frame fuse or electronic frame fuse).

2.10 MAIN AISLE MINOR - This minor power alarm indicates that the fuse is blown in one particular piece of equipment at the card level.

2.11 MAP - Maintenance access panel.

2.12 MF - Multi-frequency.

2.13 MF RECEIVER - This minor alarm indicates that one or more of the MF receivers is out of service.

2.14 MF SENDER - This minor alarm indicates that one or more of the MF senders is out of service.

2.15 NETWORK CONTROLLER (A - B) - This major alarm indicates the loss of one or more of the circuits within the Network Controller module.

2.16 NETWORK UNIT 0, 1, 2, AND 3 - This minor alarm indicates a fault in the network unit hardware.

2.17 SERVICE CIRCUITS (SCU) - This major alarm for loss of sense and control matrices indicates one or more of the units is out of service.

2.18 TELCO - Telephone operating company.

2.19 TOC 0 - This minor alarm indicates that equipment is out of service in the service observation position.

2.20 TRAFFIC OFFICE 1, 2, 3, 4, AND 5 - This minor alarm indicates that equipment is out of service in the traffic office.

2.21 **TRAFFIC OFFICE ACCESS FRAME - This major alarm indicates a fault which may be service affectinq in the traffic office data link or control matrices.**

2.22 **TRUNK CIRCUITS (TCU) - This major alarm for loss of sense and control matrices indicates one or more of the units is out of service.**

2.23 **TRUNK HIGHWAY - This minor alarm indicates that one or more of the trunk highways is out of service.**

2.24 **TTY - This minor alarm indicates that one or more of the teletypes is out of service.**

3. OVERVIEW

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

TYPE OF INDICATOR. ..	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 drawinqs for:**

- **Details about the specific equipment.**
- **The wiring of alarms.**

3.03 **Use a centralized alarm reporting system (CARS); e.q., ADC 2711, Lenkurt System 51. The Telco's needs will determine the type to use.**

3.04 **Remote monitoring is usually not required because toll switches are staffed 24 hours a day.**

3.05 **Local requirements determine whether an alarm indication will be extended.**

References

3.06 **The 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
205-000-004	Alarms for Carrier and Radio Facilities
205-000-005	Alarms for Switching Equipment Support Systems
205-000-006	Alarms for Peripheral Equipment

3.07 **Additional information is available in the following resources:**

FOR. ..	REFER TO BELL SYSTEM PRACTICE. ..
4A Marker	• 212-103-501 • 212-103-502
4A FIF	• 212-106-501 • 212-107-502
4A Decoder	212-115-501
4A Senders	• 212-210-501 • 212-212-501 • 212-214-501
4A DEC CONN.	212-301-501
4A MKR CONN.	212-303-501
4A TRK BLK CONN.	212-307-501
4A CONT CONN.	212-309-501
4A LINK CONT.	212-313-501
4A INC LINK CONT.	• 212-315-501 • 212-315-502
4A OUT LINK CONT.	212-317-501
4A INC REG LINK	212-319-501
4A INTERRUPTER	212-335-501
4A AOTT	• ?12-505-501 • 212-512-501
4A ADOIT	212-514-501
4A OGTI	212-522-501
4A AMA SUSP	212-710-501
4A CCW	217-713-502
4A CAMA SLC	212-730-501
4A TVTR	212-735-501
4A TVTR CONN.	212-737-501
4A CII	212-750-501
4A POS LINK CONT.	212-712-502
4A TVTR	212-735-502

FOR. . .	REFER TO BELL SYSTEM PRACTICE. . .
4A BI	212-7-5-502
4A DEC CHNL	• 212-806-501 • 212-806-502
4 ESS	• 234-100-040 • 234-106-015

4. TYPES OF ALARMS FOR TOLL SWITCHING EQUIPMENT

4.01 Some alarms are used with all toll switching equipment, while other alarms are found only with specific types of switches.

Alarms Used With All Toll Switching Equipment

4.02 The following alarms are used with all toll equipment:

- Fire detection system:
  - Fire.
  - System.
- Commercial power (AC):
  - With emergency generator.
  - Without emergency aenerator.
- Open door.
- Generator start.
- Generator fail.
- Rectifier fail main power fuse.
- Carrier major.
- Carrier minor.
- Carrier fuse.
- Environmental.
- Contactor.
- Air conditioning
- Pressure.

4.03 These alarms do not require remote monitorinq and are:

- Visible on:
  - A shelf or bay.
  - An aisle.
- Audible.
- Not resettable.
- Major alarms, except for carrier minor.

SATT

4.04 The SATT toll switch alarms:

- Are site specific.
- May be affected bv other alarm groups, such as power equipment.

4.05 Abnormal status phases indicate the following:

THE STATUS PHASE. ..	INDICATES. ..
XFER	A transfer has occurred to back-up or alternate unit per the description phrase. There is normally no direct service affecting problem; however service may be jeopardized should the alternate unit fail.
Fai	A total failure of both units in a transfer situation. Service is immediately affected.
ALM	A service affecting failure of at least part of the switch equipment.

4.06 The site specific record for the reportinq location lists and updates the:

- Responses.
- Action required.
- Points of contact listings.

4.07 The SATT alarms are:

- Visible on:
  - A shelf or bay.
  - An aisle.
- Audible.
- Resettable.

4.08 Remote monitoring is not required.

4.09 The SATT alarms are as follows:

TYPE OF ALARM	STATUS
ransender-Release	ajor
Tabulator	Major
Tabulator Allotter	Major
Data Timer	Major
Failure of Translator Assigner 1 or 2	Major
Tape/Perforator	Major
AN1 Convertor Failure	Minor
CNI Link	Minor

TYPE OF ALARM	STATUS
CNI Link Finder	Minor
Tabulator Release	Minor
Ticketer Release	Minor
Release Rotary	Minor
TTY Print	Minor

102 Call Director

4.10 A 102 Call Director:

- Works in conjunction with a SXS CO to orovide common control features.
- Provides translation and alternate routinq capability.
- Can also be used with other types of electromechanical equipment.

4.11 The alarms are:

- Visible on:
  - A shelf or bay.
  - An aisle.
- Audible.
- Not resettable.

4.12 The alarms are as follows:

TYPE OF ALARM	STATUS	IS REMOTE MONITORING REQUIRED?
LINKFINDER		
Fuse	Major	Yes
LK for Cont	Major*	Yes
Group Alarm	Major*	Yes
TRANSLATOR		
Fuse	Major	Yes
Parity	Minor	No
TIME OUT TRUNK		
Fuse	Major	No
LOCAL REGISTER SENDER		
Fuse	Major	Yes
EA1	Minor	No
MA	Minor	No
TOUCH CALL RECEIVER		
Fuse	Major	Yes

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

Vidar ITS-4

4.13 The alarms for Vidar ITS-4:

- Are audible.
- Are not found on aisles.
- Are shown in Exhibit 1.
- Require remote monitorinq to the Switching Service Operation Center (SSOC).

Vidar ITS-4 Alarms

TYPE OF ALARM	IS THE ALARM VISIBLE? SHELF OR BAY	STATUS*	IS THE ALARM RESETTABLE?
MAINTENANCE FRAME			
Fuse Alarm	Yes	Major	No
PRIMARY ALARM	Yes	Both	Yes
SECONDARY ALARM	Yes	Both	Yes
CONTROL FRAME FUSE ALARM			
First Panel	Yes	Major	No
Second Panel	Yes	Major	No
MATRIX FRAME			
Primary Fuse	Yes	Major	No
Secondary Fuse	Yes	Major	No

Exhibit 1 (Continued)

Vidar ITS-4 A arms (Continued)

TYPE OF ALARM	IS THE ALARM VISIBLE? SHELF OR BAY	STATUS*	IS THE ALARM RESETTABLE?
DTMF FRAME FUSE ALARM			
First Panel	Yes	Major	No
Second Panel	Yes	Major	No
VB3 FRAME FUSE ALARM			
First Panel	Yes	Major	No
Second Panel	Yes	Major	NO
Carrier Alarm	Yes	Major	No
LSS FRAMES			
Alarm-Fuse	No	Major	No
Alarm-2	No	Major	No
Alarm-3	No	Major	No
Alarm-4	No	Major	No
Alarm-5	No	Major	No

* Alarms whose status is listed as "both" are both major and minor

Exhibit

TSPS

4.14 All alarms for TSPS are:

- Major alarms.
- Visible on:
  - A shelf or bay.
  - An aisle.
- Audible.
- Not resettable.

4.15 These alarms require remote monitoring.

4.16 The TSPS alarms are as follows:

- NCAF Fuse
- NTPF Fuse
- NAEF Fuse
- PCU Fuse
- NCBF Fuse
- SCAF Fuse
- CSMF Fuse
- TMRF Fuse
- TCAF Fuse
- ATRF Fuse
- SCU Fuse
- TCU Fuse
- PS Fuse
- IS Fuse
- CP Fuse
- MCC Fuse
- PPBF Fuse
- IOAF Fuse
- TOAF Fuse
- MTC Fuse
- MBF CSMF Fuse
- MBF SCCF Fuse
- Force Encoder Cancel
- Forced Interface Alarm
- Forced Interface Cancel
- Multi Task Control
- Interface Power Intr
- Force Encoder Alarm
- APF
- Main Aisle Major
- Main Aisle Minor
- CMC Major
- CMC Minor
- Power Room Major
- Power Room Minor
- Distributor Frame Major
- Distributor Frame Minor
- Foreign Equipment Major
- Foreign Equipment Minor
- Auxiliary Equipment 1 Major
- Auxiliary Equipment 1 Minor
- Auxiliary Equipment 2 Major
- Auxiliary Equipment 2 Minor
- Auxiliary Equipment 3 Major
- Auxiliary Equipment 3 Minor
- CMC 00s
- scv 00s
- RCV 00s
- NCAF/NCBF 00s
- TOAF 00s
- IOAF 00s
- NUO 00s
- NU1 00s
- NU2 00s
- NU3 00s
- MFS 00s
- MFR 00s
- TAC 00s
- ccc 00s
- PTC 00s
- TO1 00s
- TO2 00s
- TO3 00s
- TO4 00s
- TO5 00s

- TO6 00s
- TO7 00s
- TO8 00s
- TO9 00s
- TOCO.0 00s
- TONE GEN. 00s
- 130V CONV. 00s
- MAG TAPE 00s
- TTY 00s
- PCG 00s
- RTC 00s
- RANN 00s
- SRT 00s
- NAT 00s
- HR 00s
- MBE 00s
- THY 00s

TSD

4.17 The TSD alarms:

- Are audible.
- Are resettable.
- Require remote monitorinq.
- Are visible on:

  - A shelf or bay.
  - An aisle.

4.18 The alarms are as follows:

TYPE OF ALARM	STATUS*
CPU Pair 1 Unlink	Major
CPU Pair 2 Unlink	Major
CPU Pair 1 Software Detected Error	Minor
CPU Pair 2 Software Detected Error	Minor
CPU Pair 1-A Status - STOP	Major
CPU Pair 1-B Status - STOP	Major
CPU Pair Z-A Status - STOP	Major
CPU Pair Z-B Status - STOP	Major
CPU Pair 1 Rotty Error	Minor
CPU Pair 2 Rottv Error	Minor
CPU Pair 1-A Parity Error	Major
CPU Pair 1-A DTU Error	Major
CPU Pair 1-A Memory Error	Major
CPU Pair 1-A Time Out Error	Major
CPU Pair 1-A Array Select Error	Major
CPU Pair 1-A CPU Power Failure	Major
CPU Pair 1-A Memory Power Failure	Major
CPU Pair 1-A MUX -50V Power Failure	Major
CPU Pair 1-A TTY -50V Power Failure	Major
CPU Pair 1-A TTY +5V Power Failure	Major
CPU Pair 1-B Parity Error	Major
CPU Pair 1-B DTU Error	Major
CPU Pair 1-B Memory Error	Major
CPU Pair 1-B Time Out Error	Major
CPU Pair 1-B Array Select Error	Major
CPU Pair 1-B CPU Power Failure	Major
CPU Pair 1-B Memory Power Failure	Major
CPU Pair 1-B MUX -50V Power Failure	Major
CPU Pair 1-B TTY -50V Power Faiiure	Major
CPU Pair 1-B TTY +5V Power Failure	Major
CPU Pair 2-A Parity Error	Major
CPU Pair Z-A DTU Error	Major
CPU Pair 2-A Memory Error	Major
CPU Pair 2-A Time Out Error	Major
CPU Pair Z-A Array Select Error	Major
CPU Pair 2-A CPU Power Failure	Major
CPU Pair 2-A Memory Power Failure	Major
CPU Pair Z-A MUX -50V Power Failure	Major
CPU Pair 2-A TTY -50V Power Failure	Major
CPU Pair 2-A TTY +5V Power Failure	Major
CPU Pair Z-B Parity Error	Major
CPU Pair Z-B DTU Error	Major
CPU Pair Z-B Memory Error	Major
CPU Pair 2-B Time Out Error	Major
CPU Pair Z-B Array Select Error	Major
CPU Pair 2-B CPU Power Failure	Major
CPU Pair 2-B Memory Power Failure	Major
CPU Pair Z-B MUX -50V Power Failure	Major
CPU Pair 2-B TTY -50V Power Failure	Major
CPU Pair 2-B TTY +5V Power Failure	Major
CPU Pair 1 DTU LH Row Power Failure	Major
CPU Pair 1 DTU LH Major Alarm	Major
CPU Pair 1 DTU LH Minor Alarm	Major
CPU Pair 1 DTU RH Row Power Failure	Major
CPU Pair 1 DTU RH Major Alarm	Major
CPU Pair 1 DTU RH Minor Alarm	Major
CPU Pair 2 LH Row Power Failure	Major
CPU Pair 2 DTU LH Major Alarm	Major
CPU Pair 2 DTU LH Minor Alarm	Major
CPU Pair 2 DTU RH Row Power Failure	Major
CPU Pair 2 DTU RH Major Alarm	Major
CPU Pair 2 DTU RH Minor Alarm	Major
CPU Pair 1-A Port to Billinq Magnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 1-A Port to Billinq Maqnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 2-A Port to Billing Magnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 2-B Port to Billing Magnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 1-A Port to Billing Maqnetic Tape Unit 1 - Unit Select Time Out	Major
CPU Pair 1-B Port to Billing Magnetic Tape Unit 1 - Unit Select Time Out	Major
CPU Pair Z-A Port to Billing Maqnetic Tape Unit 1 - Unit Select Time Out	Major
CPU Pair 2-B Port to Billinq Magnetic Tape Unit 1- Unit Select Time Out	Major

(Continued)

TYPE OF ALARM	STATUS*
CPU Pair 1-A Port to Svstem Maqnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 1-B Port to System Magnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 2-A Port to System Maqnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair Z-B Port to System Maqnetic Tape Unit 0 - Unit Select Time Out	Major
CPU Pair 1-A Port to Svstem Maqnetic Tape Unit 1- Unit Select Time Out	Major
CPU Pair 1-B Port to System Maqnetic Tape Unit 1 - Unit Select Time Out	Major
CPU Pair Z-A Port to System Maqnetic Tape Unit 1 - Unit Select Time Out	Major
CPU Pair Z-B Port to Svstem Magnetic Tape Unit 1 - Unit Select Time Out	Major
Svstem Maqnetic Tape Frame Power Failure -50V	Major
System Maqnetic Tape Frame Power Failure +5V	Major
Billinq Maqnetic Tape Frame Power Failure -50V	Major
Billinq Maqnetic Tape Frame Power Failure +5/-9V	Major
Billinq Maqnetic Tape Unit 0 Error Status	Major
Billinq Maqnetic Tape Unit 1 Error Status	Major
Master Clock - Sync Failure	Minor
Master Clock - Oscillator Failure	Minor
Master Clock - 60 Hz Failure	Minor
Alarm 40 Error-Major Trouble/Alarm Reset	Major
SMS/TID Front - Power Failure	Major
SMS/TID Back - Power Failure	Major
Line Group	Both
Group Selector	Both
Trunk and Miscellaneous Frames	Both
Tape Punch Alarm - Minor (l-6)	Minor
Recorder to Register Link (RRL)	Major
Clock Timer Transfer	Major
Second Timer Transfer	Major
Sync Pulse	Major
Major Alarm (TSD)	Major
Minor Alarm (TSD)	Minor
Time and Chanqe Printer (T&C)	Minor
DAS-C System - Alarm Reset	Major
Toll Pollinq Eauipment - (Allocated PT)	Major

* Alarms whose status is listed as "both" are both major and minor.

NOTE 1: The recommended quantity of TSD sense points will revert to the NX1E Switch allocated spare points when the TSD is removed.

NOTE 2: For Building/CXR and Miscellaneous Alarms, use the Standard Combination Groupinqs List JRB/Dist List 2/7/80

4A

4.19 The 4A alarms do not require remote monitoring and are:

- Audible.
- Resettable, except for:
  - CT (Dec. Conn.)
  - EC (Senders).

4.20 The 4A alarms are as follows:

TYPE OF ALARM	IS THE ALARM VISIBLE?		STATUS
	SHELF OR BAY	AISLE	
MARKER			
MK	Yes	Yes	Major
TKT	Yes	Yes	Major
DAT	Yes	Yes	Major
AMB	Yes	Yes	Minor
TRR	Yes	Yes	Minor
MK	Yes	Yes	Major
FIF			
AL	Yes	Yes	Major
PF	Yes	Yes	Major
MK	Yes	Yes	Major
DECODER			
TA	Yes	Yes	Major
TRT	Yes	Yes	Major
TRR	NO	No	Minor
ADB	No	No	Minor
SENDERS			
TA/BLK	Yes	Yes	Minor
EC	Yes	Yes	Minor
AC FAIL	Yes	Yes	Major
TAL	Yes	Yes	Minor
INC REG LINK			
RLA	Yes	Yes	Major
	Yes	Yes	Major

(Continued)

TYPE OF ALARM	IS THE ALARM VISIBLE?		STATUS
	SHELF OR BAY	AISLE	
DEC CONN			
CT	No	Yes	Major
GT	No	Yes	Minor
DGR	No	Yes	Major
TRR	No	Yes	Minor
CGT	No	Yes	Minor
DTRT	No	Yes	Major
MRR CONN			
FA	Yes	Yes	Major
TRK BLK CONN			
CH	Yes	Yes	Minor
CONT CONN			
CG	Yes	Yes	Minor
CB	No	Yes	Minor
BLC	No	Yes	Minor
BA	No	Yes	Major
INC LINK CONT			
AL	Yes	Yes	Minor
FIF-1	Yes	Yes	Major
MTRL	Yes	Yes	Minor
FIF-0	Yes	Yes	Major
LINK CONT			
TA	Yes	Yes	Minor
FA	Yes	Yes	Major
AL	Yes	Yes	Major
OUT LINK CONT			
CH	Yes	Yes	Minor
FIF-0	Yes	Yes	Major
FIF-1	Yes	Yes	Major
INTERRUPTER			
MS	Yes	Yes	Major
AC LV	Yes	Yes	Minor
AOTT			
TA	Yes	Yes	Minor
MKT	Yes	Yes	Minor
OAT	Yes	Yes	Minor
AL	Yes	Yes	Minor
EC	Yes	Yes	Minor
ADOIT			
OAT	Yes	Yes	Minor
AL	Yes	Yes	Minor
SCF	Yes	Yes	Minor
EC	Yes	Yes	Minor
DER	Yes	Yes	Minor
ERR	Yes	Yes	Minor
OGT I			
TA	Yes	Yes	Minor
TRDL	Yes	Yes	Minor
AMA SUSP			
AS	Yes	Yes	Minor
TBL	Yes	Yes	Major
CCW			
ALM	Yes	Yes	Minor
SIG ALM	Yes	Yes	Minor
CAMA SLC			
BA	Yes	Yes	Major
AL	Yes	Yes	Major
TVTR			
OAT	Yes	Yes	Major
TVTR CONN			
TVCT	Yes	Yes	Minor
TVCGT	Yes	Yes	Minor
C.I.I.			
XTL	Yes	Yes	Minor
XTC	Yes	Yes	Minor
XTU	Yes	Yes	Minor
POS LINK CONT			
A	Yes	Yes	Major
FBA	Yes	Yes	Major
PCB	Yes	Yes	Minor
TVTR			
TVTA	Yes	Yes	Major
ATVB	Yes	Yes	Minor
B.I.			
BIAL	Yes	Yes	Major
DEC CHNL			
DTRT	Yes	Yes	Major
TA	Yes	Yes	Major
TRR	Yes	Yes	Minor
DLR	Yes	Yes	Minor
DMOS	Yes	Yes	Major
ADB	Yes	Yes	Minor
DTA	Yes	Yes	Major

4-ESS

4.21 The majority of 4-ESS alarms are:

- Software activated.
- Accompanied by a printout specifying the equipment that is in trouble.

4.22 The remoting of all office alarms is accompli shed by:

- E2A telemetry equipment.
- The number 2 SCCS (SMCC software) support computer.

4.23 The 4-ESS alarms are:

- Audible.
- Resettable.
- Visible on:
  - A shelf or bay.
  - An aisle.

4.24 Remote monitoring is not required.

4.25 The alarms are as follows:

TYPE OF ALARM	STATUS*
Critical	Major
Major	Major
Minor (Cont.)	Minor
Minor (Spurt)	Minor
Power	Both

* Alarms whose status is listed as "both" are both major and minor.

4.26 The alarms for the Lenkurt 4691B/91A/46A3/CXR Supply Equipment are as follows:

- Major.
- Minor.
- Fuse.

TOPS

4.27 The alarm position:

- Is visible:
  - At the Automatic Control Data Panel (ACDP).
  - On the aisle.
- Appears at the maintenance access panel (MAP).

4.28 The alarms for TOPS:

- Are audible and resettable.
- Require remote monitoring.

4.29 The alarms are as follows:

TYPE OF ALARM	STATUS*
Critical System	Major
System	Both
Other System	Both
Power Distribution Center ABS	Major
Office Alarm Unit	Major
Critical Power Plant	Major
Power Plant	Both
Power Distribution Center	Major
Carrier Equipment	Both
Carrier Equipment Fuse	Major
Force Encoder Alarm	Minor
Force Encoder Cancel	Minor

* Alarms whose status is listed as "both" are both major and minor.