

ACCESS SERVICE TARIFF
PSCK No. 2

CINCINNATI BELL TELEPHONE COMPANY

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16. Alarm Services

(N)

16.1 General

16.1.1 Nonrecurring Charges

A. Description of Charges

1. Initial charges associated with the installation of service and facilities. The Initial Charges apply as follows:

a. Per Local Channel

b. Per Channel Option including conditioning, signaling, alternate use arrangements and switching arrangements when installed subsequent to the initial installation of the associated channel. This charge also applies to change from one channel option to another.

2. Remises Charges

a. General

A Remises Visit charge applies when a visit is required by the Telephone Company to perform work necessitated by the customer's request for service as specified below.

b. Application of Remises Visit Charge

- (1) A Remises Visit charge applies per customer request for each different building on non-continuous property that is visited on the same date for the same service to connect, move, or change that service.
- (2) A Remises Visit charge applies in addition to all other rates and charges for services as specified in this or other applicable tariffs.
- (3) Charges for work requested that are not provided in this or other applicable tariffs, will be charged on the basis of estimated or actual costs incurred, unless otherwise specified.

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.1 Nonrecurring Charges (Cont'd)

A. Description of Charges (Cont'd)

2. Premises Charges (Cont'd)

c. Non-Application of Remises Visit Charges

- (1) Disconnects
- (2) For a visit to a customer's premises where a service difficulty or trouble report results from customer-provided equipment or facilities. **However**, a maintenance of service charge as described in Section 13 applies.
- (3) Any Telephone Company-initiated changes.
- (4) Convert existing 900 Private Line channel service to a Alarm Series 3000 channel service.

d. Charges

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| | |
|---------------|---------|
| Remises Visit | \$58.39 |
|---------------|---------|

e. Maintenance and Repair

- (1) This is the charge in Section 2d, 10c, of the General Exchange Tariff, PSCK No. 3. The rate is as follows:

First fifteen minutes or fraction thereof \$31.50

Each additional fifteen minutes or fraction thereof \$ 9.00

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B. Regulations

1. A move of an alarm service to a different building on noncontinuous property is considered a new connection.
2. A change from one type of alarm service to another is considered a new connection.
3. A change from half-duplex to duplex or two-wire to four-wire or vice versa is considered a new connection.

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.2 Service Configurations

A. Intraexchange

1. In the normal scope of service, intraexchange special access services furnished within the same central office serving area, one local channel is required to connect the serving central office to the customer premise.
2. When intraexchange special access service is furnished between customer locations in different central office serving areas, interoffice channels are required to connect the serving central offices. The number of interoffice channels required for a single special access service is one less than the total number of serving central offices. Within each central office serving area, one local channel is required to provide connection between the serving central office to the customer premise.

B. Interexchange

1. When special access service is furnished between customer locations in different exchange areas, interexchange channels are required to connect the rate centers of the exchange areas. The total number of interexchange channels required for a single special access service is one less than the total number of rate centers. Within each exchange area one local channel is required to connect the serving central office to the customer premise. If the serving central office is different from the rate center central office, an interoffice channel is also required to connect the serving central office and the rate center central office in each such exchange area. In addition, a channel terminal applies per rate center central office for each interexchange channel termination.
2. Each interexchange channel connected to a switching arrangement is considered as a separate channel for which the interexchange mileage is independently computed.

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.2 Service Configurations (Cont'd)

C. Types of Service Configurations

1. Two-Point Service

A two-point service connects two customer designated premises, or a customer designated premises and a serving office for a 3000 channel, either on a directly connected basis or through a hub where multiplexing functions are performed.

Example: Alarm Series 3000 Channel point to point service connecting two customer premises via the two customer premises are 10 miles from the customer designated premises.

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LC - Local Channel
IC - Interoffice Channel
SWC - Serving Wire Center

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Applicable rate elements are:

- Local Channel (two applicable)
- Channel Mileage (1 section)

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.2 Service Configurations (Cont'd)

C. Types of Service Configurations (Cont'd)

2. Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company hub provided as multipoint service.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, in Section 7, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). National Exchange Carrier Association Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Local Channel (One per customer-designated premises)
- Interoffice Channel (as applicable between each designated customer premises and the hub, and between hubs).
- Alternate Use Arrangements (when applicable).

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.2 Service Configurations (Cont'd)

Example: Alarm Series 3000 Channel multipoint service connecting four customer premises via two customer premises via two customer specified bridging hubs.

LC - Local Channel
IC - Interoffice Channel
SWC - Serving Wire Center

Applicable rate elements are:

- Local Channel (4 applicable)
- Interoffice Channel (4 sections)

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16. Alarm Services (Cont'd)

16.1 General (Cont'd)

16.1.3 Mileage Measurements

A. Interexchange channels for Alarm Series 3000.

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1. Two-Point Service

- a. The mileage is the airline distance between the rate centers of the service points. Airline mileages are computed mathematically, employing as a base a vertical (V) and a horizontal (H) coordinate for each rate center, as determined from its latitude and longitude location by use of appropriate map projection equations.
- b. Interexchange channel rates apply for each mile or fraction thereof.

2. Multi-Point Service

- a. Each interexchange channel connecting the rate centers of the exchange areas within which service is furnished is considered a separate channel for which airline mileage is independently computed. When the customer specifies the sequence in which rate centers are to be connected, the interexchange channel charges will be determined in that sequence. Otherwise, the interexchange channel charges will be based on whatever combination of airline mileages between rate centers produces the lowest total mileage charge.
- b. The airline distance between each pair of rate centers is determined in accordance with 16.1.3.A.1.a, above.

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16. Alarm Services (Cont'd)

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16.1 General (Cont'd)

16.1.3 Mileage Measurements (Cont'd)

B. Interoffice channel for Alarm Series 3000.

1. Two-Point Service

- a. The mileage is the airline distance between the serving central office buildings of the service points. Airline mileages are computed mathematically, employing as a base a vertical (V) and a horizontal (H) coordinate for each rate center, as determined from its latitude and longitude location by use of appropriate map projection equations.
- b. For intraexchange service, rates for interoffice channels are based on the airline mileage between **serving** central offices; for interexchange service, rates are based on the airline mileage between the serving central office and the rate center central office of the exchange.
- c. Interexchange channel rates apply for each mile or fraction thereof.

2. Multi-Point Service

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a. Each interoffice channel connecting serving central offices **within** an exchange area is considered a separate channel for which airline mileage is independently computed. **When** the customer specifies the **sequence** in which **serving** central offices are to be connected, the interoffice channel charges will be determined in that sequence. Otherwise, the interoffice channel charges will be based on **whatever** combination or airline distance between serving central office produces the **lowest** total mileage charge.

- b. The airline distance between each pair of **serving** central offices is determined in accordance with 16.1.3.B.1.a, above.

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16.1 General (Cont'd)

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16.1.4 Definitions

These are definitions in addition to those included in Section 2.6.

Central Office Termination

The term "Central Office Termination" as used in connection with special access service denotes that portion of a Central Office Connecting Circuit located in a Telephone Company Central Office which connects such system with either another central office termination, a local channel, an interoffice channel or an interexchange channel.

Channel Termination

The term "Channel Terminal" denotes that portion of a special access service required to terminate the interexchange channel.

Full-Duplex Service

The term "Full-duplex Service" denotes a service which provides for simultaneous transmission of signals in the same frequency spectrum in both directions.

Half-Duplex Service

The term "Half-duplex Service" denotes service which provides for transmission alternately in either direction or for transmission in one direction *only*.

Interexchange Channel

The term "Interexchange Channel" as used in connection with special access services denotes that portion of a through channel which connects different exchange areas in which stations or channel terminations in Telephone Company offices are located.

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16. ~~Alarm Services~~ (Cont'd)

16.1 General (Cont'd)

16.1.4 Definitions (Cont'd)

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Interexchange Special Access Service

The term "Interexchange Private Line Service" denotes the special access service which connects different exchange areas in which stations or channel terminations in Telephone Company offices are located. This service includes the interexchange channel, channel terminals (interexchange), local channel(s) and/or central office terminations, and as required, interoffice channels.

Interoffice Channel

The term "Interoffice Channel" denotes that portion of a special access service which connects local channels which serve customers who are served from different central office buildings and, when used as part of an interexchange special access service, to connect an interexchange channel with a local channel(s).

Intraexchange Channel

The term "Intraexchange Channel" as used in connection with special access services denotes a channel which connects two or more station locations within an exchange area and is not connected to an interexchange channel. This service includes local channels and/or central office terminations, and as required, interoffice channels.

Local Channel

The term "Local Channel" as used in connection with special access service denotes that portion of a special access which connects a station with an interexchange channel or an interoffice channel, or which connects stations which are served from the same central office building.

Rate Center Central Office

The term "Rate Center Central Office" denotes the central office of a multioffice exchange that most closely identifies with the V and H coordinates used to determine interexchange channel mileage.

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16. Alarm Services (Cont'd)

16.2 Service Description

16.2.1 Alarm Services

A. Types and Description

1. General

- a. Alarm Series 3000 services are for alarm services only and include voice grade channels for data transmission of approximate bandwidth of 300-3000 Hz for half-duplex or duplex operation. Duplex service is furnished on an entire channel, or on a portion thereof, where facility conditions permit.
- b. Channels are furnished on a tw-point or multipoint basis to the extent specified below. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors.
- c. Conditioning options required to provide certain types of transmission performance on Alarm Series 3000 Channels are specified in Section 3.3.
- d. Alarm Series 3000 Channels may be arranged for alternate use as specified in Section 3.3.

2. Types

- a. With reference to the following descriptions:
 1. "Effective tw-vire facilities" may be composed of tw-vire metallic and/or four-vire metallic and/or carrier segments; "four-vire facilities" are composed entirely of four-vire metallic and/or carrier segments.
 2. The 1000 Hz loss objective range specified refers to the total channel offering (end-to-end) and indicates that the engineered objective loss will fall within that range at the discretion of the Telephone Company depending upon available facilities and the applicability of short-haul or long-haul engineering designs. These specifications do not include gains or losses present in customer provided equipment.

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16. ~~Alarm Services~~ (Cont'd)

16.2 Service Description (Cont'd)

16.2.1 Alarm Services (Cont'd)

A. Types and Description (Cont'd)

2. Types (Cont'd)

3. The Telephone Company reserves the right to revise these objectives and other technical parameters as described herein in accord with FCC Tariff No. 35. Section 7.

b. Type 3001 - A two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities engineered for a 1000 Hz loss objective of 16 Db; half duplex or full duplex operation; for two-point or multipoint service; normally suitable for audio tone protective relaying.

c. Type 3002 - A two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities engineered for a 1000 Hz loss objective of 16 Db; half-duplex or full duplex operation; for two-point or multipoint; normally suitable for data transmission.

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16. Alarm Services (Cont'd)

16.3 Rate Classification and Rates

16.3.1 Types of Regulations and Charges

A. Regulations

1. Type 3001

When equipped with Type C6 conditioning as specified in Section 16.1.2 these channels are designed specifically for use as audio tone protective relaying channels. An 8dB option is available subject to local channel restriction.

2. Type 3002

- a. Channels are not suitable for the transmission of direct current pulses.
- b. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors.
- c. Type C1 conditioning as described in 16.1.2 is included in the channel charge for alarm series type services 3002 channels.
- d. Channels are not suitable for switching or tandem operations to the public switched network or other special access services.
- e. When used for data transmission, signal conditioning data set equipment is required to condition signals generated by apparatus furnished by the customer to signals suitable for transmission on a channel and to condition signals received from such a channel to signals for delivery to apparatus furnished by the customer. Signal conditioning data sets may be provided by the customer when connected through the local facility provided by the Telephone Company as part of the alarm service.

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16. Alarm Services (Cont'd)

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16.3 Rate Classification and Rates (Cont'd)

16.3.1 Types of Regulations and Charges (Cont'd)

B. Rates

1. Intraexchange

| | <u>Rate Per Month</u> |
|-----------------------------------|---------------------------|
| a. Recurring | |
| (1) Local Channel, each | |
| (a) Type 3001 | |
| Half-duplex | \$15.18 |
| Full-duplex | 29.50 |
| (b) Type 3002 | |
| Half-duplex | 15.18 |
| Full-duplex | 32.37 |
| (2) Interoffice Channel, per mile | |
| (a) Type 3001, 3002 | |
| Half-duplex | |
| First mile | 16.50 |
| Each additional mile | 4.66 |
| Full-duplex | |
| First mile | 16.50 |
| Each additional mile | 9.26 |

Initial
Charge

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b. Nonrecurring

| | |
|-----------------------|----------|
| (1) Per Local Channel | |
| (a) Type 3001 | |
| Half-duplex | \$108.91 |
| Full-duplex | 124.43 |
| (b) Type 3002 | |
| Half-duplex | 108.91 |
| Full-duplex | 124.43 |

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16.3 Rate Classification and Rates (Cont'd)

16.3.1 Types of Regulations and Charges (Cont'd)

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B. Rates (Cont'd)

2. Interexchange

Rate
Per Month

a. Recurring

| | |
|-------------------------------------|---------|
| (1) Interexchange Channel, per mile | \$ 3.11 |
| (2) Channel Terminal, per terminal | 38.81 |
| (3) Local Channel, each | |
| (a) Type 3001 | |
| Half-duplex | 25.47 |
| Full-duplex | 30.42 |
| (b) Type 3002 | |
| Half-duplex | 31.40 |
| Full-duplex | 37.43 |
| (4) Interoffice Channel, per mile | |
| (a) Type 3001, 3002 | |
| Half-duplex | |
| First mile | 18.63 |
| Each additional mile | 7.65 |
| Full-duplex | |
| First mile | 21.74 |
| Each additional mile | 9.20 |

b. Nonrecurring

| | |
|-----------------------|--------|
| (1) Per Local Channel | |
| (a) Type 3001 | |
| Half-duplex | 108.91 |
| Full-duplex | 124.43 |
| (b) Type 3002 | |
| Half-duplex | 108.91 |
| Full-duplex | 124.43 |

3. Removal of Load-Coils and/or Bridge-Tap

Per Cable Opening 653.10 (N)

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16. ~~Alarm Services~~ (Cont'd)

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16.3 Bate Classification and Rates (Cont'd)

16.3.3 Conditioning

Series 3000

1. Type and Description

Conditioning for channels of voice grade is furnished as follows:

Types C1 - the envelope delay distortion shall not exceed:
between 1000 and 2400 Hertz, a maximum
difference of 1000 microseconds.
- the loss deviation rith frequency (from 1000
Hertz reference) shall not exceed:
between 1000 and 2400 Hertz, -1db to +3db
between 300 and 3700 Hertz, -2db to +6db
(+means more loss)

Type C2 - the envelope delay distortion shall not exceed:
between 1000 and 2600 Hertz, a maximum
difference of 500 microseconds.
between 600 and 2600 Hertz, a maximum
difference of 1500 microseconds.
between 500 and 2800 Hertz, a maximum
difference of 3000 microseconds.
- the loss deviation vith frequency (from 1000
Hertz reference) shall not exceed:
between 500 and 2800 Hertz, -1db to +3db
between 300 and 3000 Hertz, -2db to +6db
(+ means more loss)

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16. Alarm Services (Cont'd)

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16.3 Rate Classification and Rates (Cont'd)

16.3.3 Conditioning (Cont'd)

1. Type and Description (Cont'd)

- Type C4 - the envelope delay distortion shall not exceed:
between 1000 and 2600 Hertz, a maximum difference of 300 microseconds.
between 800 and 2800 Hertz, a maximum difference of 500 microseconds.
between 600 and 3000 Hertz, a maximum difference of 1500 microseconds.
between 500 and 3000 Hertz, a maximum difference of 3000 microseconds.
- the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 500 and 3000 Hertz, -2db to +3db
between 300 and 3200 Hertz, -2db to +6db
(+ means more loss)

Type C6 - Audio Tone Protective Relaying Channel Conditioning

Audio Tone Protective Relaying Channel Conditioning for Type 3001 channels is furnished as follows:

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These channels may be one-way, effective two-wire for unidirectional operation or two-way, effective four-wire for bidirectional operation and may be ordered in two-point or multipoint configurations terminating in either Telephone Company provided or customer provided equipment. The standard circuit net loss of a channel is 16 db at 1004 Hz. As an option, however a channel having a net loss of 8 db is available upon customer request subject to the stipulation that the loops in each receive leg of the normally available local loop (including loop loss from the serving central office, high voltage protection transformer loss, circuit termination loss) does not exceed 8 db.

- the envelope delay distortion shall not exceed: 2000 microseconds between 800 and 2600 Hz.

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16. ~~Alarm Services~~ (Cont'd)

16.3 Bate Classification and Bates (Cont'd)

16.3.3 Conditioning (Cont'd)

1. Type and Description (Cont'd)

Type C6 - Audio Tone Protective Relaying Channel Conditioning (Cont'd)

- the loss deviation with frequency (from 1004 Hz reference) shall not exceed:
between 300 - 3000 Hertz, -2db to +6db
between 500 - 2800 Hertz, -1db to +3db
- the resistance unbalance of the local channel cable pairs will be 1 percent or less.

Type D1 - High Performance Data Conditioning

High Performance Data Conditioning for Type 3002 Channel is furnished as follows:

Type 01 - For a two-point channel not arranged for switching

- Certain data transmission characteristics necessary for high performance data transmission cannot be assured on all facilities generally available for data transmission. However, Type 3002 voice grade tw-point channels may be specially arranged to provided for the following technical parameters at the request of the customer:

- **Signal to C-Notched Noise Ratio** 28db
- **Nonlinear distortion:**
 - (a) signal to second order distortion 35db
 - (b) signal to third order distortion 40db

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ACCESS SERVICE TARIFF
PSCK No. 2

CINCINNATI BELL TELEPHONE COMPANY

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16. Alarm Services (Cont'd)

16.3 Rate Classification and Rates (Cont'd)

16.3.3 Conditioning (Cont'd)

1. Type and Description (Cont'd)

Type D1 - High Performance Data Conditioning (Cont'd)

Type 01 - (Wt'd)

When the channel equipped with this conditioning is utilized for voice communications, the Telephone Company does not undertake to represent that the channel will be suitable for such voice transmission.

When, at the request of the customer, a channel is equipped with high performance data conditioning in accordance with the specifications preceding, conditioning charges apply as set forth in 16.3.2C2. following.

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PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

MAY 23 1995

PURSUANT TO 807 KAR 5.011,
SECTION 9(1)

BY: Jonathan C. Neel
FOR THE PUBLIC SERVICE COMMISSION

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ACCESS SERVICE TARIFF
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16. ~~Alarm Services~~ (Cont'd)

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16.3 Bate Classification and Bates (Cont'd)

16.3.3 Conditioning (Cont'd)

2. Rates (Series 3000)

Type C1 conditioning is included in the basic channel charge

| | <u>Initial Charge(1)</u> | <u>Bate Per Month</u> |
|---|--------------------------|-----------------------|
| a. Type C2, per point | \$ 54.45 | \$10.93 |
| b. Type C4, per point | \$ 54.4s | \$13.05 |
| c. Type C6, per point | \$ 54.45 | \$20.18 |
| d. Type D1, per channel | \$108.91 | \$20.01 |
| On a two-point channel not arranged for switching | | |

(1) This Initial Charge applies only when conditioning is added or changed subsequent to the initial installation of the associated channel.

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