

UPKEEP WORK UNITS
CENTRAL OFFICE EQUIPMENT — TOLL SWITCHBOARD
FORM E-4406

1. GENERAL

1.01 This section describes the method of counting and reporting equipment items of Toll Central Office Switchboard Equipment using Form E-4406, Central Office Equipment — Toll Switchboard, and determining the number of work units for this type of equipment.

1.02 This section is reissued to renumber it into the Plant Series and to cover a revised Form E-4406 (5-64) which refers to the new Plant Series number. The revised form will not be available until present stock of Form E-4406 (2-63) is exhausted. Marginal arrows have been omitted in this process.

1.03 Section 015-100-010 covers general instructions applicable to all upkeep work unit forms. Section 015-000-000 contains a list of the sections describing the individual forms.

1.04 For work units for trunk testing see Form E-4401 for toll connecting and exchange trunks, and Form E-4417 for intertoll and tributary trunks.

2. DESCRIPTION OF FORM E-4406

2.01 *Column A: No. of Plant Items: Other Co.:* This column is for showing plant items on which work is performed for another company, when required by local instructions.

2.02 *Column B: No. of Plant Items: Total:* This column is for showing total plant items on which work is performed.

2.03 *Column C: W.U. per Plant Item:* These are the work unit factors which, when multiplied by the plant items, give the number of work units.

2.04 *Column D: Work Units per Qtr.: Other Co.:* Enter for each kind of plant item the result obtained by multiplying the number of plant items in Column A by the work unit

factor in Column C. Computations should be expressed to nearest whole number.

2.05 *Column E: Work Units per Qtr.: Total:* Enter for each kind of plant item the results obtained by multiplying the number of plant items in Column B by the work unit factor in Column C. Computations should be expressed to the nearest whole number.

Intertoll Trunk Equipment

2.06 *Lines 1 through 9* cover equipment on intertoll trunks. Equipment on toll connecting trunks should be excluded since they are covered by Lines 10 through 18.

Note: An intertoll trunk is a trunk between Class 1, 2, 3, or 4 offices.

2.07 *Line 1: Trunk Relay Equip. — Ringdown or Dial Trunk:* Covers trunk relay equipment for use on intertoll ringdown or dial trunks.

Count one plant item for each trunk relay equipment for use on an intertoll ringdown or dial trunk.

2.08 *Line 2: Trunk Relay Equip. — Straightforward Trunk:* Covers trunk relay equipment on inward and outward straightforward intertoll trunks.

Count one plant item for each trunk relay equipment for use on a straightforward intertoll trunk.

2.09 *Line 4: Trunk Relay Equip. — Add. Wt. for Sw. Pad:* Covers switching pads associated with ringdown intertoll trunk drop circuits. Does not cover switching pads associated with line terminal equipment on the line side of secondary or patching jack boards.

Count one plant item for each intertoll trunk drop circuit having switching pads, in

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addition to entry on Line 1 for the trunk relay equipment.

2.10 Line 5: T.L. Mult. and Ans. Jacks: Covers intertoll trunk multiple and answering jacks.

Count one plant item for each 100 jacks.

2.11 Line 6: Lamps Asso. with Jacks on Line 5: Covers busy lamps, idle toll line indicating lamps, and line lamps associated with intertoll trunk answering and multiple jacks.

Count one plant item for each 100 lamps.

2.12 Line 8: Signaling Circuits: Covers all 20-cycle and 135-cycle signaling circuits (or equivalent) associated with intertoll trunk drop circuits. Does not cover signaling circuits associated with intertoll trunk terminating equipment on the line side of secondary or patching jack boards (see Form E-4407A).

Count one plant item for each signaling circuit.

2.13 Lines 10 through 18: Toll Connecting Trunk Equip. — Cover Equipment on Toll Connecting Trunks: Equipment on intertoll trunks should be excluded since they are covered by Lines 1 through 9.

Note: A toll connecting trunk is a trunk between a Class 5 office and a Class 1, 2, 3, or 4 office.

2.14 Line 10: Trunk Relay Equip. — Incoming Trunk from Class 5 Office: Covers trunk relay equipment for use on an incoming toll connecting trunk.

Count one plant item for each trunk relay equipment for use on an incoming toll connecting trunk.

2.15 Line 12: Trunk Relay Equip. — Outgoing or 2-Way Trunks to Class 5 Office: Covers trunk relay equipment for use on an outgoing or 2-way toll connecting trunk.

Count one plant item for each trunk relay equipment for use on an outgoing or 2-way toll connecting trunk.

2.16 Line 13: Switchboard Trunk Jacks: Covers all switchboard jacks except intertoll trunk multiple included on Line 5.

Count one plant item for each 100 jacks.

2.17 Line 14: Lamps Asso. with Jacks on Line 13: Covers all lamps associated with jacks on Line 13.

Count one plant item for each 100 lamps.

2.18 Line 16: O.G.T. Relay Equip. — No. 3 Subd.: Covers additional allowance for relay equipment associated with all outgoing toll connecting trunks from No. 3 switchboards, included on Line 12.

Count one plant item for each trunk.

2.19 Line 18: Trunk Hunting Selector Circuit: Covers trunk hunting selector circuits used in connection with straightforward intertoll trunks.

Count one plant item for each trunk terminating on trunk hunting selectors.

Cord Circuits

2.20 Line 19: High Impedance Type — No. 1 Switchboard: Covers high impedance type cord circuits.

Count one plant item for each cord circuit.

2.21 Line 20: Condenser Type — No. 1 Switchboard: Covers condenser type circuits.

Count one plant item for each cord circuit.

2.22 Line 21: No. 3 Switchboard: Covers No. 3 toll switchboard cord circuits.

Count one plant item for each cord circuit.

2.23 Line 22: No. 6A Teletypewriter Switchboard: Covers cord circuits in No. 6A teletypewriter switchboard.

Count one plant item for each cord circuit.

Key Equipment

2.24 Line 26: Pulsing — Trunk: Covers outgoing intracity trunk circuits arranged for key pulsing operation.

Count one plant item for each trunk.

2.25 Line 27: Pulsing—Link: Covers key pulsing link circuits which consist of trunk finders and sender selectors.

Count one plant item for each link.

2.26 Line 28: Pulsing—Sender: Covers key pulsing sender circuits.

Count one plant item for each sender.

Switchboard Positions

2.27 Line 29: No. 1 Type: Covers the position equipment of No. 1 toll switchboard positions and other type switchboards modified for similar operation features.

Count one plant item for each position.

2.28 Line 30: No. 3 Type: Covers the position equipment of No. 3 toll switchboard positions and other type switchboards modified for similar operating features.

Count one plant item for each position.

2.29 Line 31: No. 6A Type: Covers the position equipment of No. 6A teletypewriter switchboards.

Count one plant item for each position.

2.30 Line 32: Service Observing: Covers service observing positions of both No. 1 and No. 3 type switchboards (or equivalent).

Count one plant item for each service observing position.

2.31 Line 33: Miscellaneous: Covers miscellaneous switchboard positions and desks not provided for in other items, such as toll tandem positions, recording positions, information desk positions, school board positions, chief operators' desks, traffic circuit display boards, etc.

Count one plant item for each position.

2.32 Line 34: Add'l For: Call Circuit Keys: Covers outgoing call circuit keys on toll switchboards. Consider each call circuit button as a key.

Count one plant item for each 100 keys.

2.33 Line 35: Add'l For: Dial: Covers dials mounted on switchboard positions and desks.

Count one plant item for each dial.

2.34 Line 36: Add'l For: Key Pulsing Equipment: Covers additional equipment required on toll switchboard positions for key pulsing operation.

Count one plant item for each position so equipped.

Miscellaneous Equipment

2.35 Line 37: Operator's Telephone Set: Covers operators' telephone sets.

Count one plant item for each set.

2.36 Line 38: Clock: Covers 1-A, wall, and master clocks. Does not cover Telechron, Western Union, or similar clocks requiring little, if any, maintenance effort.

Count one plant item for each clock.

2.37 Line 40: Calculagraph: Covers Calculagraphs.

Count one plant item for each Calculagraph.

2.38 Line 41: Ticket Dist. System: Covers mechanical and pneumatic tube ticket distributing systems, and associated signaling equipment. Excludes manually operated distributing systems, such as track type.

Count one plant item for each tube or channel.

2.39 Line 42: Subscriber Line Circuit: Covers subscriber line circuits terminating on toll switchboards.

2.40 Line 46: Teletypewriter: Covers teletypewriters associated with TWX switchboard positions or desks.

Count one plant item for each teletypewriter.

2.41 Line 47: Other Misc. Equipment (Per Bay): Covers equipment not covered by another line of this or other work unit form as indicated below:

(a) Equipment in a bay in which *none* of the equipment in that bay is covered by another line of this or other work unit form. Determine to nearest one-quarter bay, the amount of equipment (other than fuses, jack panels, ballast lamps and portable testing apparatus) and record this as the number of plant items.

(b) Equipment in a bay in which *some* of the equipment is covered by another line of this or other work unit form.

(1) If the equipment that is covered by another line of this or other work unit form *is unrelated* to the other equipment in that bay, determine to the nearest one-quarter bay the amount of this other equipment (other than fuses, jack panels, ballast lamps and portable testing equipment) and record this as the number of plant items.

(2) If the equipment that is covered by another line of this or other work unit form *is related* to the other equipment in that bay, no plant items should be counted.

Note: Where equipment is installed outdoors or in cabinets, an estimate should be made of the bay or bays it would occupy if installed in bays in the central office.

2.42 Line 48: Total Work Units: Enter sum of Lines 1 through 47.

2.43 Line 49: Number of Frames (Bays + Positions): Enter the number of bays of equipment and switchboard positions included in the inventory. Partially equipped bays should be estimated to nearest one-quarter bay.

2.44 Line 50: Upkeep Hours on this Equipment Charged to: Enter the subaccount to which upkeep hours for repairs of equipment on this form are charged. Use one sheet for each subaccount.

2.45 City-Office, District, Division, Company-Area, Qtr. Ending: Complete form by filling in office, district, division, company and area. In quarter ending, show either March 31, June 30, September 30 or December 31, and the year.

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UPKEEP WORK UNITS
CENTRAL OFFICE EQUIPMENT - TOLL SWITCHBOARD

FORM E-4406
(5-64)

	PLANT ITEM		A	B	C	D	E	
			NO. OF PLANT ITEMS		W.U. PER PLANT ITEM	WORK UNITS PER QTR.		
			OTHER CO.	TOTAL		OTHER CO. (A x C)	TOTAL (B x C)	
1	INTERTOLL TRUNK EQUIPMENT	RINGDOWN OR DIAL TRUNK			.78			
2		TRUNK RELAY EQUIP.			1.64			
3		STRAIGHTFORWARD TRUNK						
4		ADD. WT. FOR SW. PAD (PER CIRCUIT)			.28			
5		T.L. MULT. AND ANS. JACKS (PER 100)			.32			
6		LAMPS ASSO. WITH JACKS ON LINE 5 (PER 100)			.54			
7								
8		SIGNALING CIRCUITS			1.42			
9								
10	TOLL CONNECTING TRUNK EQUIP.	TRUNK RELAY EQUIP.			.60			
11		INCOMING TRUNK FROM CLASS 5 OFFICE						
12		OUTGO'G OR 2-WAY TRK TO CLASS 5 OFFICE			.45			
13		SWITCHBOARD TRUNK JACKS (PER 100)			.19			
14		LAMPS ASSO. WITH JACKS ON LINE 13 (PER 100)			.23			
15								
16		O.G.T. RELAY EQUIP. - NO. 3 SWBD. (PER TRUNK)			.37			
17								
18		TRUNK HUNTING SELECTOR CIRCUIT (PER TRUNK)			.45			
19	CORD CIRCUITS	HIGH IMPEDANCE TYPE - NO. 1 SWITCHBOARD			.86			
20		CONDENSER TYPE - NO. 1 SWITCHBOARD			.54			
21		NO. 3 SWITCHBOARD			.69			
22		NO. 6A TELETYPEWRITER SWITCHBOARD			2.46			
23	KEY EQUIPMENT							
24								
25								
26			PULSING - TRUNK			.32		
27		" - LINK			3.69			
28		" - SENDER			9.38			
29	SWITCHBOARD POSITIONS	NO. 1 TYPE			2.46			
30		NO. 3 TYPE			5.24			
31		NO. 6A TYPE			3.32			
32		SERVICE OBSERVING			10.20			
33		MISCELLANEOUS			2.55			
34		ADD'T'L FOR	CALL CIRCUIT KEYS (PER 100)			.78		
35			DIAL (PER DIAL)			1.68		
36	KEY PULSING EQUIPMENT (PER POS.)				1.42			
37	MISCELLANEOUS EQUIPMENT	OPERATOR'S TELEPHONE SET			1.23			
38		CLOCK			.28			
39								
40		CALCULAGRAPH			6.60			
41		TICKET DISTG. SYSTEM (PER TUBE OR CHANNEL)			15.80			
42		SUBSCRIBER LINE CIRCUIT			.41			
43								
44								
45								
46		TELETYPEWRITER			23.80			
47		OTHER MISC. EQUIPMENT (PER BAY)			22.00			
48	TOTAL WORK UNITS		(LINES 1 THRU 47)					
49	NUMBER OF FRAMES (BAYS + POSITIONS)		xx					

50 UPKEEP HOURS ON THIS EQUIPMENT CHARGED TO

ACCOUNT

CITY-OFFICE	
DISTRICT	
DIVISION	
COMPANY-AREA	
QTR. ENDING	