NEW YORK STATE DEPARTMENT OF PUBLIC SERVICE APPROVED METER LIST

Rev. 2/19/2025

DUNCAN/LANDIS + GYR/SIEMENS

TYPE	CLASS	VOLTS	WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED	REVIEW
FOCUS/Focus ALF	10,20,100						
FOCUS E130	200,320,480	120/240120/240	33	03-16-05	L+G	05-4-04	
FOCUS/Hunt ERT	10,20,100	120/240/277	3-4				
	200,320,480	120/240/277120/240/277	3-43-4	10-19-0507-15-10	L+GN'GRID	09-13-0511-9-09	
FOCUS AX and SD	10,20,100,200						
FOCUS AX/METRUM CARDFOCUS E330, E350	10320,20,100,200			120-320		3-4	04-16-1309-01-17
CNTRL N'GRID HUD	02-23-1310-25-16						
		120-480	3-4				

FOCUS Axe	10,20,100,200	240	3	10/19/17	MET LAB	8/31/17
FOCUS AXe/RXReL+G S4x MET LABL.I.L.	100,200,32010,20,100,200 09-28-6010-14-608/31/17	120	120/240/480	32-3	12-18-1708-04-59	
MKS	200	120/240/480	2-3	12-28-60	Con-EdL.I.L.	
MH-IS MQAT-MQST		120/240	2-3	(No Test)		
MQA-MQS	60 10	240/480	3	12-28-60		
MQA-MQS	100	120/240/480	3			
	100	120/240	4			
MQA-MQS						
	200	240	4			
ML2S	100	120	3			
ML2 1/2 S	100	240	3			
ML2S-delta						
MR-IS	100	120/480	3-4	03-11-60	Con-Ed	
MS	60	240	3	03-11-60		
MT	200	240	3	03-11-60		
MSII	10,20,100,200	120/240	3	01-15-63	Con-Ed	
MS-2SE	200	120/277	4	05-05-70	L.I.L.	
MT-12SE	320	120	3	07-31-73	N.M.P.	04-18-73
MT-16SE	320	120/240/277	3-4	03-06-79	L.I.L.	01-16-79
MTNS12S	320 20		2	03-09-82	L.I.L.	06-01-81
SSM				03-09-82	L.I.L.	06-01-81
SSM-II				09-22-83	N.M.P.	02-04-83

WATTHOUR METERS

MX-2S			12-13-83	Con-Ed	06-15-83
S4			09-20-89	N.M.P.	05-15-89
S4e	Solid State Watthour Meter		10-19-93	L.I.L	
S4/S4e	200	240	03-01-95	RG&E	04-27-94
E650	Solid State Watthour Meter		01-13-97	NMP	08-08-96
			09-27-10		06-02-04
	Solid State Watthour Meter firmware upgrades			N'Grid	09-13-10
	Metrum Communication Module			N'Grid	

		Altimus	120/208	3	08-03-99	Con-Ed 05-17-99
2410 MAXsys 2510	20 20 2,	AL	120/240/277/480	3-4	06-01-01	NMPC 02-09-01
MAXsys 2510 MAXsys10			120/240/277/480	3-4	06-01-01	NMPC 02-09-01
Elite S4x 9S S4x	2,10,20		120/240/277/480	3-4	04-07-05	NMPC 03-13-05
12S, 12SE S4x 16SE	20 200,		120/240/277/480	3-4	06-23-08	L+G 5-30-08
S4x 45S	320 320		120-277 120-277	3-4	12-14-17	L+G L+G 8-31-16
Axe/RXRe kwh/Dmd 1S	320		120-277	3-4	12-14-17	L+G 8-31-17
	100		120-480	3-4	12-14-17	L+G 8-31-17
MAXsysElectronic Meter-Network			120	3-4	12-14-17	L+G 8-31-17
			120, 240	3	12-14-17 12-14-17	L+G 8-31-17 8-31-17
			240	3	12-14-17 12-14-17	L+G 8-31-17 8-31-17
			120, 240	3	12-14-17 12-14-17	L+G 8-31-17 8-31-17
Axe/RXRe kwh/Dmd 2S,12/25S - 200			120,240,120/208	2-3	10-14-22	NatGrid 3-24-22
Axe/RXRe kwh/Dmd 2SE 320				2-3		8-22-23
Revelo E360 1.2	100,200,320		120-480	2—4	6-12-24	National Grid
			120,240,120/208	2-3	10-24-24	NatGrid
Nexus 1260/1262 1270/1272	20					
Axe/RXRe kwh/Dmd 3S,4S	20		120-480	3-4	11/25/03	Electro Ind. 8/11/03 NMPC-LOI

Electro Industries

Revelo E360	100,200,320
Revelo E660 w/ Ferrites	20,200,320

WATTHOUR METERS

GENERAL ELECTRIC

TYPE	CLASS	VOLTS	WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED	APPROVAL REVIEW
DS-63 Swbd	10	120/240	3				
DS-65 Swbd	10	120/240 240	4				
DS-66 Swbd	10	120/240/480	4				
DS-67 EV@	10		3	01-07-75	CHG&E		
EV	electronic Polyphase Meter with 08/26/93			05-08-91	N.M.P.	11-30-90	
M-90E for demand							
	extension of EV line to include			10-08-93	N.M.P.		
EV-7, 3 element form 17S, self-contained,							
and 9S, transformer rated for 120/240v							
delta services							
EV2	extension of EV line to include			10-08-93	N.M.P.		
Class 3 transformer rated and Class							
320 self-contained							
Electronic Single Phase and Polyphase							
EV/ES				08-22-92	N.M.P.		08/26/93
Meter for watthour and Varhours with							
Phase 3 Registers:							
KM-901 - Demand							
KTC-901 - Demand, T.O.U.							

KRC-901 - Demand, T.O.U., Load Profile

I63-S	60	208	3	04-28-60	Con-Ed		
I-60S Modified	200	240	3	01-15-63	N.M.P.	12-26-62	
I-70A	200	240	3	10-13-88	LILCO	10-03-88	
I-70S+	200	240	3	03-26-68	N.M.P.		03-10-00
I-70 S/2+	200 320 10 all	240 240	3	12-04-73	N.M.P.		03-10-00
I-70S	20,100,200,320	120/240	3	03-09-82	L.I.L.	06-01-81	
I-70S	200	120/240	2/3	08-11-82	N.M.P.		
IR-70	20,100,200,320	120/240	3	10-14-86	NYSEG	04-07-86	
I-210	20,100,200,320	240	3	2/9/05	GE	10-19-04	
I-210 Hunt Airpoint		120/240	3	1/5/11	GE	12-15-10	
I-210+(C)(N)		120/240	3	6/18/08	GE	12-17-08	
I-210+ (C)(N)			3	5/11/09	Con Ed/GE	4/27/09	5/5/09
I-210/Itron 52ESS**@Modified current sensor on transformer rated meters only.**	20,100,200,320	120/240	3	6/18/09	CenHud	6/4/09	6/15/09

+Modified current coil on self contained meters only.

TYPE	**CLASS**	**VOLTS**	**WIRE**	**APPROVED**	**TESTING ENTITY**	**APPROVAL SUBMITTED**	**REVIEW**

WATTHOUR METERS

KM-901 KTC-901 KRC-901	Enhanced application for KQh/KQ, varhour calibration check LED, HV4 form C and A output option board and communications option board						
V-61-S	60	120			10-08-93	N.M.P.	
V-611S	60	120			02-14-61	Con-Ed	
V-612S+	100	120			05-26-64	Con-Ed	
V-612S+	200	120			05-11-66	N.M.P. Con-Ed N.M.P.	08-27-93
V-62+	100	120/240/480	3		09-15-70	N.M.P.	08-27-93
V-62+	200	120/240/480	3		04-12-60	N.M.P.	04-20-64 08-27-93
V-63#	10	120/240	3		04-12-60	N.M.P.	04-14-66 08-27-93
V-63+	100	120/240	3		04-12-60	N.M.P.	02-17-70 07-08-91
V-63+	200	120/240	3		04-12-60	N.M.P.	08-27-93
V-63-2A#	10-20	120/240	3	3	01-21-69	N.M.P.	08-27-93
V-63#	20	120/480	3		03-12-74	N.M.P.	07-08-91
V-64*	10	120/240	3	3	03-19-65	N.M.P.	07-08-91
V-64*	20	120/240	3		03-19-65 03-19-65	N.M.P.	08-27-90
V-64+	100	120/240	4			N.M.P.	11-13-68 08-27-90
V-64+	200	120/240	4	4	03-19-65		08-27-93
V-64-2A*	10-20	120/240	4	4	01-21-69		08-27-93
V-64*	17	120/240	4		Not approved-modified to class 20 capability		08-27-90
V-64*	20	120/240	4		08-31-79	RG&E	08-27-90
V-65-2A#	10-20	120/240	4		01-21-69	N.M.P.	11-13-68 08-27-90
V-65#	10	120/240	4				07-08-91
V-65+	100	120/240	4		04-12-60	N.M.P.	07-08-91
V-65+	200	120/240	4				08-27-93
					04-12-60	N.M.P.	11-13-68 08-27-93

+Modified current coil on self contained meters only.
#Replacement with Metal Oxide Varistor surge protection.
***Addition of a tertiary winding on the voltage coil.**

WATTHOUR METERS

GENERAL ELECTRIC

TYPE	CLASS	VOLTS	WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED	REVIEW
V-65#	20	120/240	4Y	03-12-74	N.M.P.		07-08-91
V-65S+ Modified	200	120/240	4		N.M.P.	08-15-80	08-27-93
V-66#	10	240 240	4		N.M.P.		07-08-91
V-66+	100	240 240	4	04-12-60	N.M.P.		08-27-93
V-66#	20	240	4D	03-12-74	N.M.P.		07-08-91
V-66S+ Modified V-66S-	200		4		N.M.P.	08-15-80	08-27-93
A+	200	240	4	09-27-60	N.M.P.	05-19-60	07-08-91
V-67#	10	120-480	4	03-19-65	(No Test) N.M.P.		01-29-98
KV@	20, 200, 320	120/240		08-07-97	N.M.P.	02-04-97	
kVs (Single-Phase)	200	120-480	3-4	09-20-99	N.M.P.		
kVe (Energy Only)	20, 200, 320	120-480	3	09-20-99	N.M.P.		CHGE-LOI
kV2	20, 200, 320	120-480	3-4	11/22/01	GE	08-09-01	CHGE-LOI
kV2c(Encompass)	20, 200, 320	120-480	3-4	11/25/03	GE	08/12/03	5/5/09
KV2c Silver Spring	20, 200, 320		3-4	5/11/09	Con Ed/GE	04/27/09	
kV2c Silver Spring 311, 314 -25S			3-4	6/17/11	GE	11/20/11	
Enhanced Power Supply kV2c							
Trilliant module 20, 200, 300		120-480	3-4	6/30/14	Con Ed	1/2014	
Cell Reader CRDR-1010							
			Aclara				
I-210+c/Silver	20,100,200,320	120-480	2-4	1/26/2017	Aclara	4/2016	10/2016 Con Ed
Spring 511 Commercial/Residential							
kV2c/Silver	20, 200, 320	120-480	3-4	2/16/2017	Aclara	12/2016	
Spring 511							
kV2c/Metrum 4G	20, 200, 320 kV2c/	120-480	3-4	5/30/2017	Aclara	4/2017	
Synergize RF	20, 200, 320	120-480	3-4	9/10/2018	Aclara	1/2018	

TYPE	CLASS	VOLTS	WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED	REVIEW
I-210+/Synergize	200	240	3	2-4-19	Aclara	10-16-2018	
I-210+c with FW 6.0 NIC upgraded and renamed "Prion 2"	100,200,320	120,240	2-3	1-22-20	Aclara	07-17-2019	19-E-0508
I-210+c with FW 6.1 w/ enhanced magnetic tamper detection	100,200,320	120,240	2-3	5-28-21	Con Ed	1-20-2021	
***approval based on similarity to I-210+c with FW 6.0** I-210+cn kV2c GEN 5 with Itron NIC 511 Prion 2	20, 200, 320	120-480	3-4	3-22-21	Aclara	05-19-2020	
*kV2c GEN 5 without Itron NIC 511 Prion 2	20, 200, 320	120-480	3-4	12-01-21	Central Hudson		20-E-0239
***approval based on similarity to kV2c GEN 5 with Itron NIC 511 Prion 2**							
kV2c GEN 5 LTE	20, 200, 320	120-480	3-4	3-27-24 with Metrum Cellular	National Grid		
***approval based on similarity to kV2c GEN 5 with Itron NIC 511 Prion 2**							
kV2c GEN 5 Point to Multipoint (P2MP) communications module	20, 200, 320	120-480	3-4	12-12-24 with Aclara RF	National Grid		20-E-0239
***approval based on similarity to kV2c GEN 5 with Itron NIC 511 Prion 2**							20-E-0239
INVENSYS							
iCon iSO1,iSA1	200	240,120/208	3	09/17/03 iNO1,iNA1	INVENSYS	06/09/03	
POWER MEASUREMENT							
ION 8300,8400,8500	20	57-277	4	12/18/02	POWER MEASUREMENT	08/15/02	NG- LOI
	2, 20	120-480	4	10/12/05	POWER MEASUREMENT	9/10/05	
ION 8600 Modified	2,10,20	120-480 120-480	4		POWER	02/10/05	eBid-LOI

ION 7550/7650				4/8/05		

Modified					MEASUREMENT	

+ Modified current coil on self contained meters only.

 # Replacement with Metal Oxide Varistor surge protection. * Addition of a tertiary winding on the voltage coil.

@ Includes A-base Configuration

SCHNEIDER ELECTRIC

ION 8650	2,10,20	120-480	4	4/19/12	Schneider Electric	10/20/12

PROCESS SYSTEMS

Quad 4 Plus	20	69-277	4	04-17-96	NYSEG	07-13-95

SANGAMO/SCHLUMBERGER

TYPE	CLASS	VOLTS	WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED
REVIEW						
P2	60	120/240/480	3	05-24-60	RG&E	04-27-60
P2	100	120/240/480	3			
P2	200	120/240/480	3			
P2P	10	120/240/480	3			
P2P	100	120/240/480	3			
P2P	200	120/240/480	3			
P2 Delta	10	240 240 240	4			
P2 Delta	100	120/240	4			
P2 Delta	200	120/240	4			
P2 Wye	10	120/240	4			
P2 Wye	100	120/240/480	4			
P2 Wye	200		4			
P20S-P20A	100	120/240/480	3	12-13-60	RG&E	11-18-60
		120/240/480			(No Test)	
P20SP-P20AP	100	120/240/480	3			
P20S-P20A	200	120/240/480	3			
P20SP-P20AP	200	240	3			

P20SP-P20AP	10		3			
P20S-P20A Delta	100		4			
P20S-P20A Delta	200 10 10	240 240	4			
P20S-P20A Delta	100 200	120/240	4			
P20S-P20A Wye	10,100 10	120/240	4			
P20S-P20A Wye	10,100,200	120/240 120	4			
P20S-P20A Wye	10,100,200	240	4			
J3S-J3A J3S-J3A	10,100,200	240	2	12-28-60	RG&E	11-16-60
J3S-J3A J3S-J3A	100,200	480	2			
J3F-Switchboard		120/240/480	3			
J3V-Two Rate		240	2			
2-3						
2-3						

SANGAMO/SCHLUMBERGER/Itron

TYPE	**CLASS**	**VOLTS**	**WIRE**	**APPROVED**	**TESTING ENTITY**	**APPROVAL SUBMITTED**
REVIEW						
P20S	60	120 120	3	06-13-62	Con-Ed	
JNS-1	60	120	3	07-17-62	Con-Ed	
P20S Urban	100	120/240	3	06-09-66	Con-Ed	04-04-66
Ed Transmitter and				07-16-68	Con-Ed	
Transformer				07-16-68	Con-Ed	

ED Receiver	12					
J4S	200	240	3	06-02-7103-14-72	N.M.P.RG&E	
S2S, S2A	100,200		3	03-14-72	RG&E	
S3S, S3A	10,20,100,200		3	03-14-72	RG&E	
S11S	60		3	03-14-72	RG&E	
S12S	100/200 Urban		3	03-14-72	RG&E	
S5S, S5A	10,20,100,200		4 Wye	03-14-72	RG&E	
S6S, S6A	10,20,100,200		4 Delta	03-14-72	RG&E	
S4S, S4A	10,20,100,200		4 Wye	05-18-84	RG&E	
S5 (changed)	2.5 Stator		4 Wye	03-14-72	RG&E	05-03-84
S3F	10		3	03-14-72	RG&E	
S5F	10		4 Wye	03-14-72	RG&E	
S6F	10		4 Wye	03-14-72	RG&E	
S4F	10		4 Wye		O & R	
J11S Network	60	120	3		O & R	03-29-77
J12S Network	100	120	3		O & R	03-29-77
J12S2 Network						
100						
J4SMT		120	3	02-17-93	O & R	10-23-93
	200		3			
		240		09-24-80		

J5S	100,200	240	3	09-05-85	NMP	NMP12-06-82	06-10-98
J5S1	200 200	240	3	03-12-93	NMP	L.I.L. 01-21-93	
J5S2		240	3	03-12-93	NMP	NYSEG 01-21-93	
SL				03-28-89	L.I.L.	11-29-88	
FULCRUM	Multi-Function Solid State Watt-hour Meter			08-29-95	L.I.L.	08-01-94	
VECTRON	Multi-Function Solid State Watt-hour Meter			04-17-96	RG&E	07-13-95	
QUANTUM	Multi-Function Solid State Watt-hour Meter			05-17-96	Con-Ed	06-06-95	
VECTRON SVX* Solid State Meter				09-04-97	RGE	02-20-97	
CENTRON (C1S)	20,100,200,320	120/240	3	05-26-00	Itron Inc		
CENTRON (C12/25S)	20,100,200,320	120/208	3	02-01-01	Itron Inc		
CENTRON (C1S)	20,100,200,320	120/240	3	08-30-02	Itron Inc.		
CENTRON (C1SR)	20,100,200,320	120/208/240	3	05-17-05	Itron Inc.	04-29-02	
CENTRON (C1BR)	20,100,200,320	120/208/240	2/3	11/21/07	Itron Inc.	03-29-05 11-09-07	
CENTRON (C1SR6)(Legacy)	FM1S,2S,3S,4S	120/240	2/3	12/22/15	Itron Inc.	07-24-15	
CENTRON (C1S6) (Legacy)	FM1S,2S,3S,4S	120/240	2/3	12/22/15	Itron Inc.	07-24-15	
CENTRON (CN1S6)(Legacy)	FM12S, 25S	120/240	3	12/22/15	ITRON Inc.	07-24-15 07-24-15	
CENTRON (CN1SR6)(Legacy)	FM12S, 25S	120/240	3	12/22/15	ITRON Inc.	04/10/17	
CENTRON (C1SR6 & CN1SR6)	FM1S,2S,3S,12S	120/240 RF Chip	3			06/22/17	
CENTRON (C2SRDe, CN2SRDe)	FM1S, 2S, 12S	120/240 RIVA	3/4	01/27/17		12/14/17	
CENTRON (CP2SRA)	FM 9S, 16S	120/277 RIVA		08/17/16	Schlumberger 07-22-02		
SENTINEL	Multimeasurement Electricity Meter Line			06/22/17	Itron Inc 9/23/11		
SENTINEL	Metrum UtiliWise ECM-SC			11-04-02	Itron Inc 9/23/11		
SENTINEL	Trilliant CRDR -1010-SENT-c			11-20-11	Itron Inc 2/8/12		
SENTINEL	Types SS4S1L, SS4S2L, SS4S4L, SS4S1T, CENTRON			11-20-11			04-07-06
CENTRON	SS4S2T		W/ETHERNET	3-16-12			12-22-15
	POLY-PHASE Meter Line C & I platform		33	07-19-0604-15-15			
	(CP1S, CP1SR, C1SR, CP1ST, CP1SL)		2/3	10-14-10 2/3	Itron Inc 12-22-09		
	(CP1SR6) Form 1s, 2s, 3s, 4s, 12s			12-5-10	Itron	Inc12-15-10	
*Revision 11PCB (Vectron)			3	12-10-10	Itron Inc		
CENTRON – Open Way	20,100,200,320	120/208/240	3	1-16-16			1-10-11
CENTRON Open Way HW 3.0 100, 200		120/240	3	6-1-15	Itron Inc		
CENTRON – Polyphase A-based with KYZ		120/240	3	1-15-16			7- 2015
CENTRON – Open Way 2.1		120/240	3		Itron Inc		
CENTRON – Open Way 3.1		120/240	3				3-25-15
CENTRON – Open Way 3.5 commercial		Auto ranging		3-16-12	Itron Inc.		
CENTRON – Knighthawk technology Form 2S		120/240		11-17-16			6-13-16
CENTRON – Open Way 4G LTE CP2SOAS		120/240	3	9-7-18	Itron Inc.		
CENTRON – Open Way 4G CP2SOAS with antenna		120/240	3	6-16-21			6-13-11
CENTRON #- CP2 Polyphase Meter Line		120/277			ITRON INC.		
(CP2SD,CP2ST,CP2SL,CP2SDR3,CP2STR3,CP2SLR3)							8-24-15
					Itron Inc		
							9-10-18
					Itron Inc.		

Itron Inc.
National Grid

RIVA – GEN 5 Residential Meter Line (R2SID,R2SI,RN2SID,RN2SI)	120/240	3	1-20-22	Itron Inc.
RIVA – GEN 5 Polyphase Commercial Meter (RP3SIA)	Line 120-480	3	5-12-22	Itron Inc.
CENTRON #– OpenWay CENTRON Polyphase CP3SOAS LTE-M	120/277	3	8-3-23	National Grid

 # Approved on the basis of similarity

SCHWIEITZER ENGINEERING

Schweitzer SEL-735		300	3	9/25/19	Schweitzer

SENSUS

APX	20, 200	120/240/277/480	4	06-20-07	N'GRID
Stratus IQ	20, 200, 320	120/240	2-3	11-23-22 Case #21-E-0200	Sensus

2/11/19
11-21-06
4-6-21

WESTINGHOUSE/ABB/ELSTER

TYPE	**CLASS**	**VOLTS**	**WIRE**	**APPROVED**	**TESTING ENTITY**	**APPROVAL SUBMITTED**	
D2A-D2S	10,100 100 200 All 10 200	120/240/480	2-3	06-14-60	Con-Ed		
D2A-D2S	10,100,200	120/240	2-3	06-14-60			
D2S D2A & D2S D2B8F	60	120/240 All	2-3	06-14-60		05-19-60	**REVIEW**
D2S 5U	200						

D3S		120/240	120	3-4	4	03-26-63	Con-Ed Long
D3SN		120/240	Wye	02-06-68	Island	Con	120 3 12-01-70 Ed Con-Ed
D4S		120/240		2-3		03-26-63	Con-Ed 02-26-63
				3 06-27-68		RG&E	05-24-68 2-3 07-16-68
D4 Polyphase D4S	All	All	120	3-4		02-06-73	RG&E 11-28-72
5U D4S	60,100,200	120/240		3		03-12-74	Con-Ed 12-11-73
Modified D4S	200 All	All		2-3		07-31-80	RG&E 07-24-80
Modified Polyphase	320 200	240		3-4		03-22-83	RG&E 10-13-81
D4S	200	120/240		3		03-09-82	L.I.L. 06-01-81
D5S Single Phase	2.5,5	240		3		06-15-83	O & R 12-14-82
D5S-5N	2.5,5	120		3		4/11/05	Con-Ed 03-20-88
AB1R/D5	10	120		3		12-28-60	Elster 01-26-05
RK-2	All	120/240/480		4		12-28-60	O & R 09-27-60
RK-3	200	All				07-18-61	NYSEG
CBF	200	120/240				11-05-87 2-	RG&E
D5	20,200,320	120/240		3-4-6-8		12-20-88	O & R 07-29-87
D5S/1*	20,200,320	96 – 528		3-4		09-11-92	O & R 08-29-88
D5S/2	20,200,320	96-528		3		06-30-95	Con-Ed 08-31-92
Alpha	20,200,320	96-528		3	03-30-98	3-4 03-	Con-Ed 07-07-94
Alpha Plus #		96-528		30-98			Con-Ed 02-06-98 07-09-90
Alpha Plus #		ALL		3-4		07-16-98	NYSEG 12-02-97 05-11-90
Alpha		57-277		3-4			Elster
Alpha Plus modified		120-480		3-4			POWER 02-04-05
ABB/ION 8300,8400,8500	20	120 480		3-4			MEASUREMENT 8-15-02
A3 Alpha #	20,200,320					02-16-05	
A3 Alpha #	(with Itron 50ESS ERT)			4	12-18-02		eBid-LOI
				3-4		02-12-03	**REVIEW**

• Approved on the basis of similarity (elimination of an aluminum shield) ELSTER 12-9-02
 # Approved on the basis of similarity

WESTINGHOUSE/ABB/ELSTER

TYPE	CLASS	VOLTS	WIRE	APPROVED		
REX					**TESTING ENTITY**	**APPROVAL SUBMITTED**
	Electronic	120/240	3	6-20-05		
					Elster	12-27-05

SCIENTIFIC COLUMBUS INC./ AMETEK

JEM-I				06-30-82		
6406	Electronic	DC		06-26-85		
					N.M.P. Con-Ed	10-16-84

202P-D	Solid State	25HZ 55530VAC		04-10-86		09-09-85
JEM-II	Electronic	55-530	3-4	04-05-88		12-01-88
JEMStar	Electronic	55-530	3-4	11-22-01		08-13-01
Ci20	Electronic		3-4	11/21/05		11-07-05
JEMStar II	Electronic			07/13/15		10-29-15
	Electronic				Con-Ed	
					Con-Ed	
					Con-Ed	
					AMETEK	
					AMETEK	
ROBINTON PRODUCTS						
K&L Intellimeter	Solid State			06-13-86		02-04-86
TEMPO					Con-Ed	
36DD007	Electronic DC Watthour Meter			05-14-93		
TRANSDATA						
Mark V	Multifunction Solid State Watthour Meter			10-01-96	Con-Ed N.M.P.	10-01-95

CONTACT DEVICES

GENERAL ELECTRIC

TYPE	WIRE	DATE	TESTING ENTITY
D-41 Impulse Generator	3 3 3 3 3	02-26-63	N.M.P.
D-51 Impulse Generator	3	02-17-70	L.I.L.
D-52 Impulse Generator	3W in, 2-3W out	07-17-73	N.M.P.
D-53 Impulse Generator		12-22-75	Con-Ed
D-72 Pulse Initiator		09-26-83	N.M.P.
D-73 Pulse Initiator		09-26-83	N.M.P.
MR-3 Isolation Relay		07-17-73	N.M.P.

SANGAMO/SCHLUMBERGER

MPS Pulse Generator	3	10-19-71 01-24-80	RG&E
SPI Pulse Initiator	3		RG&E
EPI Pulse Initiator		03-28-89	L.I.L.

WESTINGHOUSE/ABB

CD-11 Photo Pulse Initiator	3	03-07-69	Con-Ed
CD-21 Photo Pulse Initiator	3		RG&E
CDI-12 Photoelectric Pulse Initiator 12 A & B CDI-22 AR, 22 A & B	3	03-18-75	RG&E
	3	03-18-75	

DUNCAN/LANDIS & GYR

PG-6MT, PG-6 MTL	3	07-17-73 07-17-73	N.M.P.
PG-6MS, PG-6 MSL	3		N.M.P.
SPG-8 Electronic Pulse Generator		04-06-82	O & R

PROCESS SYSTEMS, INC

Sentry 30 Isolation Relay	3	07-14-82	RG&E
Sentry Isolation Relays Models 30-E, 50, 70		08-30-06	RG&E

GENERAL ELECTRIC

TYPE	VOLTAGE	CIRCUIT	DATE	TESTING ENTITY
MC-63	120/240 240/240	30-3W 30-3W	02-28-60	L.I.L.
	120/120	30-4W Wye		
MC-65	240/277:240/277	30-4W Wye		
	240/240	30-4W Delta		
MC-67				

SUPERIOR SWITCHBOARD AND DEVICES

1391	120/240	30-3W Delta	10-21-59	NYSE&G
1397 240 120	30-4W Delta 1415 240	30-4W Wye		
1392	120	30-4W Delta	08-01-72	NYSE&G
1395		30-4W Wye		

PHASE-SHIFTING TRANSFORMERS

GENERAL ELECTRIC

TYPE	SCALE	VOLTAGE	DATE	TESTING ENTITY	REVIEW
M-51 T-76	1, 2, and 6 TOU	120,240,480	09-01-70	N.M.P.	
TM-80	TOU, Demand		02-20-79	L.I.L.	
TM-80P	TOU		12-16-80	O & R	
TM80/1	TOU, Demand		06-09-82	N.M.P.	
TM80/P/1	TOU, Demand		01-00-85	N.M.P.	
M51/1(T)	1, 2, and 6		01-00-85	N.M.P.	
TM-81	TOU, Demand	Con-Ed Pat. Pend.	05-23-83	Con-Ed	
M-90	Demand		09-14-84	RG&E	
TMR-82	TOU, Demand, Load Profile		04-24-85 09-15-85	NYSEG O & R	
T-90*	TOU		09-24-86 02-24-88	L.I.L. RG&E	
TM-91	TOU, Demand		07-08-88	N.M.P.	
M-90-P	Demand		11-14-88	N.M.P.	5/14/93
TM-91-P	TOU, Demand		03-28-89	O & R	
TMR-92	TOU, Demand, Load Profile		09-19-90	L.I.L.	
TM-900	TOU		06-13-91	L.I.L.	
TMR-900	TOU, Demand, Load Profile		05-08-91	N.M.P.	
M-90E	Demand (EV Polyphase Meter)		08-22-92	N.M.P.	
KM-901	Demand (EV 1P & 3P watt-hours, var-hours)		08-22-92	N.M.P.	
KTC-901**	Demand, TOU (EV 1P & 3P watt-hours, varhours)		08-22-92	N.M.P.	
KRC-901**	Demand, TOU, Load Profile (EV 1P & 3P Watthours, varhours) Electronic demand register for EV line T.O.U. register for EV line T.O.U. recording register for EV line		10-08-93	N.M.P.	06/10/94
M-90AE***			10-08-93	N.M.P.	06/10/94
TM-900E			10-08-93	N.M.P.	07/12/95
TMR900E					

* Logic board modification

** Internal telephone modem

*** Programming enhancement

REGISTERS

SANGAMO/SCHLUMBERGER

TYPE	TESTING ENTITY	REVIEW

	SCALE	VOLTAGE	DATE		
CD MCD-	1, 2, and 6	120/240	09-01-70	Con Ed	
6,7&8 ED5	Cumulative Demand		11-14-79	Con Ed	
MTR-20	Meter Dial Extension System		05-15-85	Con Ed	
MTR-30			09-24-80	O & R	
MTR-21C			09-24-80	O & R	
ST-D101			09-24-80	O & R	
ST-MT100	Demand		01-13-88	RG&E	
ST-D101R	TOU, Demand		05-23-88	RG&E	
ST-MT100R	TOU, Demand		12-06-88	RG&E	
ST-DS120	TOU, Demand		12-06-88	RG&E	03-05-90
I200	TOU, Demand, Load Profile		11-13-91	N.M.P.	03-05-90
T200*	Encoded Register		08-25-93	N.M.P.	03-05-90
T300*	Encoded Register		08-25-93	N.M.P.	03-05-90
R200	Encoded Register w/ Modem		05-17-95 10-20-95	Con Ed	
D200**	Itron ERT Encoder			RG&E	
MT200**	Electronic Register, Demand		10-20-95	RG&E	12-07-95
MTR200**	Electronic Register, TOU w/Demand		10-20-95	RG&E	12-07-95
	Electronic Register, mass memory, TOU w/Demand				06/25/96
					06/25/96
					06/25/96

WESTINGHOUSE/ABB

Mark II	1, 2, and 6	120	05-26-64	Con-Ed	
Mark II	8	120	05-07-74	RG&E	
EMF 2110	Demand		09-06-88	Con-Ed	
EMF 2410	TOU Register		09-05-90	Con-Ed	
EMF 3410	TOU Register (single phase only)		12-03-92		01-03-90

* Telephone Modem Interface

** LCD Modification

DUNCAN/LANDIS & GYR

TYPE	SCALE	VOLTAGE	DATE	TESTING ENTITY	REVIEW
Type B	1, 2, and 6 TOD Demand	120/240/277/480	07-17-73		
RTD	Demand		04-06-82	N.M.P.	
PDR	Demand		06-26-85	O & R	
PDR-J	TOU		01-13-88	N.M.P. Con-	
PDR-A	TOU, Demand		01-27-88	Ed N.M.P.	
DT	TOU, Demand, Load Profile		11-14-90	L.I.L.	
DC	TOU, Demand		11-14-90	L.I.L.	
DCR			11-14-90	L.I.L.	
DX			09-16-93	N.M.P.	

DOMESTIC AUTOMATION

SM101	Electronic Register		02-27-89	NYSEG	REVIEW
SM-3200	Solid State Multi-Function		12-03-92	RG&E	

GENERAL ELECTRIC

TYPE	CHANNELS	COUNTS	VOLTAGE	DATE	TESTING ENTITY
PD55F	1	999/Interval	120	02-26-63	N.M.P.
PD57F	1	999/Interval	120	02-17-70	L.I.L.
PDM-70	4	6000/Hour	120	12-10-74	N.M.P.
SST-3	20	18/Second	120	12-22-75	Con-Ed
PDM-75	Solid State	7200/Hour		12-22-75	Con-Ed
PDM-76	2 or 4		120/240/277	09-06-88	NYSEG
DR-87	2 or 4	7200/Hour		09-06-95	NYSEG
DR-87/2	1 to 4	electronic	120/240/277		
	1 to 4	electronic	120/240/277		
		120/240/277			

SANGAMO/SCHLUMBERGER

DPR 215,230,260	2			02-01-72	RG&E
DPR 415,430,460	4	4095/Interval	120	02-19-75	RG&E
SR1	2	4095/Interval		07-11-84	RG&E
		1800/our	120/240	11-24-87	O & R

MBR-90 Solid State Recorder ST-DS 101
Solid State Recorder

DEMAND RECORDERS/TOTALIZERS

ST-DS 111	Solid State Recorder		11-24-87	O & R

FERRANTI ELECTRIC, INC.

CE MK II CE MK II	Impulse Totalizer (Model R/C)	120	06-16-70	Con-Ed

WESTINGHOUSE/ABB

TYPE	CHANNELS	COUNTS	VOLTAGE	DATE	TESTING ENTITY	REVIEW
WR-2	2	4000/Hour	120/240	03-07-69		
WR-4	4	4000/Hour	120/240	02-03-70		
WR-2C	1	6000/Hour	120	02-03-70	Con-Ed	
WR-4C	3	6000/Hour	120			03-07-
Dem Pulse Relay and Master and Slave Pulse Syn. Circuit for WR-2C and WR-4C				03-07-69	N.M.P.	
				03-07-69		69 03-
W-3 Isolation Relay		3 wire in, 2-3 wire out		06-21-77	N.M.P.	
	Con-Ed	22 wire in, 2-2 wire out wire in, 3 wire out				07-69
W-2 Interval Tripping Relay Con-Ed					Con-Ed	
W-4 Polarized Relay				08-17-72	Con-Ed	
W-5 Power Supply 2 wire in, 3 wire out				01-06-77	O & R	
WR-31	1, 2 or 4	6000/Hour	120/240/277/480			

DUNCAN/LANDIS & GYR

BTR	2,4	6000/Hour		03-05-80		
STR	2,4	7200/Hour	120/240	03-03-81	Con-Ed NYSEG	
				08-10-82		
				01-12-83		
				06-01-85		
				05-03-88		

PROCESS SYSTEM, INC.

Sentry 1540				03-04-94	Con-Ed	
Sentry 1545A Demand Pulse Totalizer					Con-Ed	
Sentry 100 Solid State Recorder					Con-Ed	
Sentry 210 Solid State Pulse Totalizer					L.I.L. Con-Ed	
Sentry 1545B Totalizer					Con-Ed	
Sentry S1610 Totalizer					Con-Ed	
S200-EXP (DSUII) Demand Recorder with on site display and Totalized output						

TESTING

FAIRCHILD SPACE AND ELECTRONICS CO.

DEMAND RECORDERS/TOTALIZERS

TYPE	CHANNELS	COUNTS	VOLTAGE	DATE	ENTITY	REVIEW
PDSU	Solid State			12-16-80	Con-Ed	
		EMAX INCORPORATED				
EMAX Solid State				06-30-82	NYSEG	
		ROBINTON PRODUCTS, INC.				
LPR Solid State 4 Recorder		1500/15 min. int.	120/240	02-14-83	Con-Ed	
LPR-II Solid State Recorder				07-01-88		
		CONTROL DEVICES				
System 10	Pulse Recording Transponder Solid State			07-24-85	RG&E	
		TELOG INSTRUMENTS				
8506	Pulse Recording Transponder (3 Channel System 10)			09-09-87	RG&E	
		APPALACHIAN TECHNOLOGY				
SST-2430	Electronic Totalizer			01-13-89	Con-Ed	
		DUNCAN/LANDIS & GYR				
DG-100	2 or 4 Solid State Demand Recorder			06-09-92	RG&E	10-25-89

DOMESTIC AUTOMATION

TYPE	CHANNELS	COUNTS	VOLTAGE	DATE	TESTING ENTITY	REVIEW
Linc	4	Electronic Recorder		6/9/92	RG&E	
		METRETEK				
SIP AC-II	2 4	Solid State		12/04/92	RG&E	
SIP AC-IV		Solid State		12/04/92	RG&E	
		SUMATRON				
Model 600	Solid-State Totalizing Relay			4/30/93	LILCO	
		TRANSDATA				
SSR-6000	12	Solid State		6/18/09	Con Ed	
		ENETICS				
LD1110	1S,2S, 12S, 25S	Solid State Load Monitoring Equipment		4/21/16	N'GRID	

INSTRUMENT TRANSFORMERS

GENERAL ELECTRIC

TYPE	PRIMARY AMPS	VOLTS	SEC. AMP.	DATE	TESTING ENTITY	APPROVAL SUBMITTED

JCX-0	200, 400, 600, 800	600	5	06-29-65	L.I.L.	
JCR-0	Indoor and Outdoor	600	5	06-29-65		
JKL-3	200 and 400	5,000	5	09-27-60	L.I.L.	
JKL-4	5 to 4000	8,700	5	09-27-60	NIMO	
JKL-5	5 to 4000	15,000	5	09-27-60	NIMO	
JKM-3	5 to 4000	5,000	5	06-27-51	NIMO	
JKM-95 JKM-5	5 to 800	15,000	5	03-13-70	L.I.L.C.O.	
JKM-3C	5 to 200	15,000	5	07-12-60	NIMO	
JKM-3C	5 to 800	8700	5	10-24-14 08-	NIMO	
JKM-4C	5 TO 800	5000	5	20-03	NGRID	
JKM-5C	5 to 800	8700	5	08-20-03 08-	G.E.	
JKM-4	5 to 800	15000	5	20-03	G.E.	
JCD-0	10 to 800	8700	5	04-12-60	G.E.	
JKP-0	2000-3000-4000-8000	600	5	08-09-60	N.M.P.	
JKP-0	1000/2000-2000/4000	600	5	06-16-52	L.I.L.	
JKS-5	5 to 600	600	5	09-21-55	L.I.L.CO	
JCM-2	5 to 800	15000	5	09-13-60	L.I.L.CO	
	40-100-150-200-300				Con-Ed	
	400-600-800 (Approved only where high short circuit duty required. See approval)				RG&E	11-13-14
JCB-3	1200-1500-2000-3000	2500	5	12-28-60		
JCB-4		5000	5	06-13-62	N.M.P.	12-19-03
JCB-5	4000	8700	5			12-19-03
JCB-3a*	1200-1500-2000-3000-4000	15000	5			12-19-03
JCB-3a	" " " " "	5000	5		KEG GE	06-22-60
JCB-4a*	" " " " "	5000			KEG	06-22-60
Jcb-5a*	" " " " "				KEG	06-16-52
JCD-3	1000 " " " "	8700		02-9-04	N.M.P.	09-21-55
JCD-4		15000	5	06-07-10		06-20-60
JCD-5	"					11-11-60
JCM-3	" " " " "	5000	5	02-9-04		
JCM-4	"					05-17-62
JCM-5	" " " " "	8700	5	02-9-04		
	"	15000	5	06-13-62		
	" " " " "					02-12-04
	"	5000	5			06-08-10
	" " " " "	8700	5			02-12-04
						02-12-04
						05-17-62

"	15000	5
" " " "		
"		5
" " " "		
"		5

			SEC.			
JCB-3a	600/1200	5kV	5	4/16/19	Cricket Energy	4/18/19
TYPE	**PRIMARY AMPS**	**VOLTS**	**AMP.**	**DATE**	**TESTING ENTITY**	**APPROVAL SUBMITTED**
JCW-3	" " " " "	5000	5			
JCW-4	" " " " "	8700	5			
JCW-5	" " " " "	15000	5			
JCW-0	200-400 10/20, 25/50, 50/100, 75/150,	600	5	02-13-63	N.M.P.	01-10-63
KG-150	100/200, 150/300, 200/400, 300/600,	25kv	5	02-16-65	NYSEG	01-14-65
	400/800, 500/1000, 600/1200, 800/1600	34.5kv				
	1000/2000	46kv				
	See KG-150	69kv				
KG-200	See KG-150					
KG-250	See KG-150					
KG-350	Extended Range					
JCT-OS	Extended Range Extended Range	600V	5	02/23/16	NYSEG	7/22/16
JCK-OS	Extended Range	600V	5	02/23/16	NYSEG	7/22/16
JAD-OS		600V	5	02/23/16	NYSEG	7/22/16
JAB-OS				02/23/16		7/22/16

		SEC.			APPROVAL
* Approved on similarity to JCB-3,JCB-4,JCB-5.	600V	5	2/17/2022	NYSEG	2/17/2022
JBW-5ER 7200/8400:120	15 kV	5	8/24/2024	Natl. Grid	8/24/2024
Model 780 200:5 (Combined CT/VT Transformer)					
Model 785 50:5-1,200:5 & 2,000:5		5	8/24/2024		8/24/2014
1,500:5-1600:5, 2,500:5-3,500:5					
50:5-1,200:5 & 2,000:5		5			
			8/24/2024		8/24/2024
EJOF 123 Combined CT/PT High Accuracy Instrument Transformer	***PFIFFNER*** 123 kV				
	ARTECHE				
			1/21/16		12/4/14
CRH-36 5-1200	34.5kV	5	7/13/16		10/29/15
CRF-36 5-1200	34.5kV	5	6/2/17	ARTECHE	1/26/18
CRB-17 5-1200	15kV	5	5/23/18	ARTECHE	3/20/19
IRH-1 50-1200	600v	5		ARTECHE	
				ARTECHE	

CURRENT TRANSFORMERS

IRH-5 50-1200	600v	5	5/23/18	ARTECHE	3/20/19
IRH-7 100-4000	600v	5	5/23/18	ARTECHE	3/20/19
IRH-10 100-4000	600v 5 600v	5	5/23/18	ARTECHE	3/20/19
IRH-12 1000-6000* *Similarity Case 18-E-0324			10/12/22	Con Edison	10/17/22
	34.5kV	5			
CRF-36 200,600,1200			12/5/24	Con Edison Similarity	1/22/24

***extended range; see Case 16-E-0119**

GENERAL ELECTRIC

TYPE	PRIMARY AMPS	VOLTS	AMP.	DATE	TESTING ENTITY	SUBMITTED
JCD-0	5000-6000 200-400-600 200-400 50/100,	600	5	08-04-70	N.M.P.	
JCM-0	75/150, 100/200 150/300, 200/400,	600	5	06-29-65	N.M.P.	
JCR-0	300/600, 400/800, 600/1200, 800/1600 See	600	5	05-29-65	N.M.P.	
KW-450	KW-450 1000/2000, 1500/3000 See KW-450	92kv	5	04-26-66	N.M.P.	03-03-66
KW-550	See KW-450	115kv	5	04-26-66	N.M.P.	03-03-66
KW-550*	See KW-450	115kV	5	08-19-03	GE	07-01-03
KW-650	800, 1000, 1200, 1500, 2000, 3000	138kv	5	04-26-66	N.M.P.	03-03-66
KW-750	4000, 1000/2000, 1500/3000, 2000/4000	161kv	5	04-26-66	N.M.P.	03-03-66
KW-900	25/50, 50/100, 75/150, 100/200,	230kv	5	04-26-66	N.M.P.	03-03-66
JAD-0	150/300, 200/400, 300/600, 400/800,	600	5	06-09-66	Con-Ed	05-16-66
JKW-150	500/1000, 600/1200, 800/1600, 1000/2000, 1500/3000 See JKW-150 See JKW-150 See JKW-150 1200, 1500, 2000, 3000, 4000	25kv	5	06-09-66	N.M.P.	05-05-66
JKW-200	200, 400, 500, 600, 800, 200/400, 300/600, 400/800	34.5kv	5	06-09-66	N.M.P.	05-05-66
JKW-250	200, 400, 600, 800	46kv	5	06-09-66	N.M.P.	05-05-66
JKW-350	1500	69kv	5	06-09-66	N.M.P.	05-05-66
JCL-0 JAK-0	300, 400, 500, 600, 800, 1000, 1200, 1500, 2000, 3000	600v	5	11-14-67	RG&E	09-25-67
JCT-0	5, 10, 15, 20, 25, 50, 75, 100,	600v	5	06-05-69	RG&E	04-30-69
JCD-0 JAB-0	150, 200, 300, 400, 600, 800	600v	5	08-20-69	N.M.P.	07-30-69
JKW-110		600v	5	08-04-70	N.M.P.	06-30-70
		600v	5	01-26-71	L.I.L.	
		15kv	5	07-20-71	N.M.P.	

* Approved on similarity to KW-550 115kV 800/1600

GENERAL ELECTRIC

TYPE	PRIMARY AMPS	SEC. VOLTS	SEC. AMP.	DATE	TESTING ENTITY	APPROVAL SUBMITTED
JKM-95	5 through 200	15kv 5kV	5	03-12-74	N.M.P.	12-26-73
JCK-3**	5 – 800	5	08-19-03	GE GE	07-08-03	
JCK-4**	800	15kv	5	08-19-03	N.M.P. 04-15-75	07-08-03
JCK-5, JCJ-5CER	10 through 800	92/115kv	5	N.M.P.		02-27-75
KH-450	37.5 x 75 through 300 x 600	115/138kv	5	09-07-78		05-01-78
KH-550	400/800 through 1000/2000	138/161kv	5			
KH-650		151/196kv				
KH-750		196/230kv				
KH-900		34.5kv				
JKW-7	10/5 through 800/5	600	5 5	12-28-78	N.M.P.	
JAB-0	200:5	34.5kv	5 5	03-06-87	N.M.P.	12-15-86
BM	600	15kv 15Kv	5 5	10-30-87	RG&E	07-27-87
JKW-5,JWK-5c	10 through 1200	25Kv 15Kv	5 5	Note: PSC Case #279		02-13-97
JKW-5A	All Ratios	15Kv	5	12-04-97	NYSEG	02-13-97
JKW-6	All Ratios	600	5	1-03-96	NYSEG	02-13-97
JKW-6A	All Ratios	600	5	12-04-97	NYSEG	12-26-01
JKM-5A, JCK-5c	JKM-5AC All Ratios	600	5	12-04-97	NYSEG	12-26-01
JAG-0	600:5	600	5	08-19-98	Cen Hud	12-26-01
JAB-0C	JAB-OW 200:5 through 3000:5	600	5	01-25-02	GE	12-26-01
1200:5JCL-0C#	through 3000:5	600	5 5	01-25-02	GE	03-26-02
200:5JCM-0C#	through 400:5	600 600	5	01-25-02	GE	03-26-02
JCT-0C	JCT-OW 200:5 through 800:5	600	5	01-25-02	GE	03-26-02
JAD-0C	JAD-OW 200:5 through 4000:5	600	5	01-25-02	GE	03-26-02
JAK-0C	JAK-W 200:5 through 800:5	600	5	04-16-02	GE	03-26-02
JCD-0C%	1500:5 through 8000:5 JCP-0C% 600:5 through 4000:5	145	5	04-16-02	GE GE	03-26-02
JCR-0C	JCR-OW 100:5 through 400:5	5000	120	04-16-02	GE	02-11-10
200:5JCW-0C%	through 400:5			04-16-02	GE	12-19-03
				04-16-02	GE	
				04-16-02	GE	
				10-14-09	GE	
				8-20-03		

3,00017-1200-14
2400:120PT-7 to 34500:120
**Approved on similarity to the JCK-5

Aprv'd on similarity to JAB-0, JCL-0, JCM-0, JCT-0 respectively; insulation material change; manf'd at GE Clearwater Fl
% Aprv'd on similarity to JAD-0, JAK-0, JCD-0, JCP-0,JCR-0, JCW-0 respectively; insulation change; manf'd in Clearwater Fl * Approved on similarity of the CTM-115, No longer manufactured

GENERAL ELECTRIC

TYPE	***PRIMARY AMPS***	***SUBMITTED***
JV6-SUPERBUTE	Outdoor Voltage	2/17/2021
T155-CT	3000	11/9/2023
	Case #23-E-0668	
	PRIMARY AMPS	

VOLTS	***AMP.***
12 kV – 24kV	
362kV	5

DATE	**TESTING *ENTITY***	**APPROVAL SUBMITTED**
8/15/2022	Natl. Grid	10-18-94
5/20/2024	GE	10-18-94
		10-18-94
		01-19-99

GEC ALSTHOM

TYPE	**VOLTS**	**SEC. AMP.**	**DATE**	**TESTING ENTITY**
CTM-069	69kv	5	09-11-95	L.I.L.
CTM-115	115kv	5	09-11-95	L.I.L.
CTM-138	138kv	5	09-11-95	L.I.L.
CTH-115*	115kv	5		

GEC DURHAM INDUSTRIES

			SEC.			APPROVAL
				03-29-99	CEN-HUD	07/25/02
AD						07/25/02 10/16/07
ACL	300,300,400,500,600,800,1000,1200,1500 2000,3000,4000,5000,6000,600/1200,800/1600					10/16/07
TAB	1000/2000,1500/3000,2000/4000	600	5			
AB	800,1000,1200,1500,2000,3000,4000,1000/2000, 1500/3000,2000/4000	600	5	12/18/02	ConEd	04/25/06
	200,300,400,600,800	600	5	12/18/02	ConEd	
	100,200,300,400,600,600,800,1200,1500,2000, 3000,4000,200/400,300/600,400/800,1000/2000,			6/13/07	GEC Durham	
UB-R	1500/3000,2000/4000	600	5	6/13/07	GEC Durham	
		HITACHI				
	3000-2500-2000	345kV/63kA switchgear	5	6/20/06	HVB/AE	
		SCHNEIDER ELECTRIC				
		765kV		9-19-07	N'Grid	7-7-07
Current/Voltage Transformer Verification		500kV Current/Voltage		9-19-07	N'Grid	7-7-07
Transformer Reclassification						
Schneider Electric ION8650		***NXTPHASE OPTICAL TRANSFORMERS***				
		69-765kV	5	06/05/04	NGRID	10/20/05
		RITZ INSTRUMENT TRANSFORMERS				
				2-9-05	RITZ	10-5-04

NXCT	1 to 3000	15.5kV	5	2-9-05	RITZ	10-5-04
		15.5kV	5	8-21-23	National Grid	10-5-04
		15 kV	5	2-9-05	RITZ	
		25kV	5	8-21-23	National Grid	10-5-04
GIFU 15.01 5 to 1200 A 5 to 1200		25 kV	5	2-9-05	RITZ	10-5-04
GIFU 15.01L A 5 to 1800 A		36kV	5	2-9-05	RITZ	10-5-05
GIFU 15-03 5 to 1200 A		48kV	5	2-9-05	RITZ	10-5-05
GIFU 25-01 5 to 1800 A		72kV	5	2-9-05	RITZ	10-5-04
GIFU 25-03 5 t0 3000 A		35kV	5	2-9-05	RITZ	3-21-06
GIF 36	5 to 3000 A	123-765kV		7-19-06 7-	RITZ	3-21-06
GIF 48	5 to 3000 A	72.5-765kV 36.5-		19-06	RITZ	3-21-06
GIF 72	5 to 3200 A	550kV		7-19-06	RITZ	12-20-11
GIFS 36-55 Extended Current Range		36.5-550kV		5-27-11	RITZ	12-20-11
OSKF	EM Voltage Transformer	10kv		5-27-11	RITZ	12-20-11
OTCF	IM Voltage Transformer	600v	5	5-27-11	RITZ	1-9-2023
OTCF	SM Voltage Transformer	600v	5	1-13-22	Con Edison	10-5-04
OTCF	Voltage Transformer	600V	5	2-9-05	RITZ	10-5-04
DVE6/DVF6 100 to 1200			Oil	2-9-05	RITZ	2-9-05
DCAW, DCBW 100 to 1200			SF6	10-5-04	RITZ	
DCAB,DCBB 100 to 1200						
DCAB*				8-21-23	National Grid	
*extended range; approved based on similarity; see Case #11-E-0303				8-21-23	National Grid	
KOTEF	72-362kV	115		8-21-23	National Grid	
KSKEF	123-765kV	115		8-21-23	National Grid	2-9-05
VEF 72.5	5.5kV to 72.5kV	69kV		10-5-04	RITZ	2-9-05
VEF 15-09 Single Pole Voltage Transformer		2400V - 14400V		10-5-04	RITZ	
VZF 15-09 Double Pole Voltage Transformer		2400V - 14400V				
VEF 36-10 Single Pole Voltage Transformer		20124V - 34500V				
VZF 36-10 Double Pole Voltage Transformer		20124V - 34500V				
VEF 15-10 5.5kV to 72.5kV		15kV				
VZF 15-10 5.5kV to 72.5kV		15kV				

VEF 15-20	5.5kV to 72.5kV	15kV 15kV		10-5-04	RITZ	2-9-05
VZF 15-20	5.5kV to 72.5kV	25kV 25kV		10-5-04	RITZ	2-9-05
VEF 25-10	5.5kV to 72.5kV	48kV 69kV		10-5-04	RITZ	2-9-05
VZF 25-10	5.5kV to 72.5kV	245kV-765kV		10-5-04	RITZ	2-9-05
VEF 48-01	5.5kV to 72.5kV	600v		10-5-04	RITZ	2-9-05
VEF 72.5	5.5kV to 72.5kV	600v		10-5-04	RITZ	2-9-05
OTEF	72.5kV to 765kV			10-5-04	RITZ	2-9-05
DCCW				5-11-11	RITZ	12-11-11
100-3000 A						
DCDW				5-11-11	RITZ	12-11-11
100-4000 A						
DCEB, DCEW				5-11-11	RITZ	12-11-11
DCCB	200-6000 A	600v		5-11-11	RITZ	12-11-11
	100-3000 A	600v				
GIFS-36-55	200,1000A	36kV		12/5/24	Con Edison	2/27/24
***extended range; see Case 04-E-1159**					Similarity	

SANGAMO/SCHLUMBERGER

BH-6	200, 400, 600, 800, 200/400, 400/800			08-04-59	N.M.P.N.M.P.	02-20-61
S-6	200, 400, 600, 800			02-28-61	Con-Ed	10-05-62
WH-6	800, 1200, 1500, 2000, 3000, 1000/2000			10-23-62	Con-Ed	11-27-63
SK-6	200			01-07-6412-08-65	Con-Ed	11-05-65
S-6A	200, 400, 600			11-14-67	L.I.L.	
WH-6A	800, 1000, 1200, 1500	15kV	5	09-23-69	L.I.L.	08-27-69

SMC-150	10, 15, 20, 25, 30, 40, 50, 75, 100, 150, 200, 300, 400, 600, 800	600	5			
B6SA,B6S	200 through 2000	600	5			
B6BA,B6B	200/400 through 400/800	600	5	12-20-74	Con-Ed	
B6M,B6P	All ratios	600	5			
R6*	100, 200	600	5	12-23-86	Con-Ed	11-19-86
R6M*		600	5	01-24-90	Con-Ed	10-16-89
R6/Santoprene	All ratios		5	11-09-10	Itron	12-02-10

* 100:5 and 200:5 thermal rating increased from 3 to 4.

MWB MESSWANDLER /HAEFELY TRENCH

TYPE	PRIMARY AMPS	VOLTS	SEC. AMP.	DATE	TESTING ENTITY	APPROVAL SUBMITTED
SAS	115-765kv	SF6 Gas Insulated		09-18-95	N.M.P.	01-21-94

SQUARE "D" COMPANY/HAEFELY TRENCH

IK	All ratios			08-11-86	N.M.P.	01-24-86
IH	All ratios			08-11-86	N.M.P.	01-24-86

KONAR

ANB-0.72	800:5			2-22-19	Cricket	6-19-19
		Dry Type	5			

NWL TRANSFORMERS

31422	1200, 1600:5			09-26-86	Con-Ed	06-25-86
31426	2400:5		5	03-09-88	Con-Ed	11-04-87
			5			

WESTINGHOUSE/ABB

EMC	800, 1200, 1500, 2000, 3000, 4000, 1000/2000, 1500/3000, 2000/4000	600	5	04-25-60	Con-Ed	03-24-61
ACT-550	600/1200			12-28-60	N.M.P.	09-21-60
CTOM-15	10, 15, 20, 25, 30, 40, 50, 75, 100,	11500	5	05-09-61	L.I.L.	10-27-64
CTOM-5	150, 200, 300, 400, 600, 800	15000	5	10-27-64	L.I.L.	
CTOM-15	5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 150, 200, 300, 400, 600, 800	5000	5	03-30-65 08-23-67	Cen-Hud N.M.P. Con-Ed	03-02-65 08-04-67
CLA-10	To include 5 amp rating	15000 5 600	5	05-11-65		
CLA-10	800	600	5	04-04-67	Con-Ed	03-03-67
RTM-10	1000, 1200, 1500, 2000, 3000, 4000, 1000/2000, 1500/3000, 2000/4000					
CTR	200, 400, 600, 800	600	5	03-15-68	N.M.P.	08-04-67
CT-25	200, 400,600, 800, 200/400, 300/600, 400/800	600	5	06-06-68	Con-Ed	
CTR	400	25000	5	07-21-70	N.M.P.	09-30-70
CRA-10	400/5 4.0 T.F.	600	5	09-23-71	RG&E	09-07-71
	400, 600, 800, 1000, 1200, 1500, 2000	600	5			

WESTINGHOUSE/ABB

TYPE	PRIMARY AMPS	VOLTS	SEC. AMP.	DATE	TESTING ENTITY	APPROVAL SUBMITTED
CSB-10	200, 400, 600 100, 200 10/20 through 1500/3000 200, 400, 500, 600, 800, 200/400, 300/600, 400/800	600	5	09-12-72	Cen-Hud Con-Ed	
ACT-200	200, 300, 400, 500, 600, 800	34500	5	09-12-72		
ACT-350	200, 300, 400, 600	69000	5	04-01-75	Cen-Hud	
CMF*	200, 300, 400, 600, 800, 1000, 1200, 1500, 2000, 3000	600	5	02-06-80	Cen-Hud	
CBT	800, 1000, 1200, 1500, 2000, 3000, 4000, 600/1200, 800/1600, 1000/2000, 1500/3000, 2000/4000 5 through 800	600	5	03-05-80	N.M.P.	
CSF	25 through 800 5 – 800 5 – 800 10800	600	5	03-05-80	Cen-Hud	
CMV*	5-1200	600	5	03-05-80	N.M.P.	
CLC*	10-1200					
KOR-60	25-1000	4800	5	03-09-82	N.M.P.	
KON-11		15000	5	01-12-83	N.M.P.	03-30-81
KOR-75**		8.32kV	5	09-02-03	ABB	08-19-03
KOR-11**		13800	5	09-02-03	ABB	08-19-03
KOR-15**		25000	5	09-02-03	ABB	08-19-03
KOR1-15C**		25000	5	09-02-03	ABB	08-19-03
KOR-20**		34.5kV	5	09-02-03	ABB	08-19-03
KOR-20ER		34500	5	12-21-23	Con Ed Cen-Hud	12-22-22
^See 22-E-0708^						
KIR-11	25 through 800	13800	5	10-24-83	National Grid	
KIR-11ES	5 through 1200		5	08-21-23		
CBT/1	200 through 800	600	5	10-26-92	N.M.P.	02-21-92
CBT-H	200 through 800	600	5	10-26-92	N.M.P.	02-21-92
BCT	400 through 3000	600	5	10-24-01	RGE	05-04-01
SAB-2	1600:5	600	5	05-08-09	Huntley	06-08-09
ABB CN14	300-560	4000	5	06-19-19	Cricket	02-22-19

**Approved on similarity to the KOR-60 and KON-11

ABB CBT-S 600	600	5	08-23-21	Similarity	03-23-21

*based on similarity to CBT/1 and CBT-H approved in Case 92-E-0112

ABB CVC110ER 200,1000 7200/12470GY to 120 (CT/VT Combo Unit) 7620/13200GY to 120 8400/14560GY to 120			5	10-14-22	NGRID	05-18-22
KIR-60	5-200/300-1200	5kV	5	8/30/2024	National Grid	2/19/2025

ITE CIRCUIT BREAKER COMPANY

MC15AS	400	15000	5	09-09-64	Con-Ed	08-10-67

ALLIS CHALMERS

BKCM	1000/2000 through 2000/4000	600	5	07-17-62	Con-Ed	06-11-62

* CMF, CMV, CLC – modification - standardized terminal sizes 01-09-01.

KUHLMAN ELECTRIC CORP

TYPE	PRIMARY AMPS	SEC. VOLTS	SEC. AMP.	DATE	TESTING ENTITY	APPROVAL SUBMITTED	APPROVAL REVIEW
CEH DEH	1000/2000 through 2000/4000	600	5	01-21-64	Con-Ed	12-16-63	
COF-200	1000, 2000 All Through	600	5	01-23-73	Con-Ed	12-11-72	
PS-981	2000:5 69kV 3000 34.5 – 345 kV	600	5	03-06-87	Con-Ed	12-29-86	
POF350-2			5	08-03-99	Con-Ed	05-07-99	
PH-982			5	11/12/04	Con-Ed	08-18-04	
CXM		600	5	03/17/05	Con-Ed	11-20-05	
				7/25/07	N'Grid	7-25-07	
KA72,123,145,245 69kV-230kV		600	5	5/20/08	Kuhlman	10-15-08	
KXM-350,550,650,1050 69kV – 230kV		600	5	5/20/08	Kuhlman	10-15-08	

ASTRA CORPORATION

TCB*	200, 400, 600, 800	600	5	03-18-66	Con-Ed	01-17-66	04-14-92
TCW	200, 400, 600, 800 300, 400,	600	5	09-05-68	Cen-Hud	05-31-68	
AP	500, 600, 800, 1000 1200,	600	5	08-29-77	RG&E	11-22-78	
APN	1500, 2000, 3000 200, 300,	600	5	06-16-86	RG&E	11-04-85	
APNE	400, 500 200 100 100	600	5	06-16-86	RG&E	11-04-85	
TCB	600	5	01-22-87	RG&E	09-05-86		
TCW	600	5	01-22-87	RG&E	09-05-86		

APPROVAL SUBMITTED

12/4/14
12/4/14
12/4/14
12/4/14
12/4/14
06/02/17
10/29/15

* Molding change due to the use of a superior steel core, added 600:5 ratio on a similarity basis.

BCT			***Meramec***			11-08-06	10/29/15 06/02/17
	5- 8,000	600	5,1	08-08-06	Meramec		10/29/15 06/02/17

ARTECHE

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY
VRU-52					Arteche
URS-36					Arteche
URU-52	240:1 – 400/666.66:1 115-115/69 1500-3000 1/21/16 140:1 – 175/300:1 Marked				Arteche
VRS-36	Ratio 34.5kV 120-115/67.08 1/21/16 240:1 – 400:1 Marked Ratio 46.0kV 115115/69				Arteche
VRJ-17	1/21/16 69.25/166:1 – 300/500:1 Marked Ratio34.5kV 115/67.08-120 1/21/16 20:1				Arteche
UCE-7	– 70/121:1 Marked Ratio 15kV 120 7/13/16 20:1 – 40:1 Marked				Arteche
UCE-17	Ratio 5Kv 120 1/24/18 60:1 – 120:1 Marked Ratio 15kV 120 7/13/16				Arteche
URL-17	20:1 – 66.67:1 Marked Ratio 15kV 120 7/13/16				Arteche
URJ-17	20:1 – 70:1 Marked Ratio 15Kv 120 1/24/18				Arteche
VCE-17	60:1 – 120:1 Marked Ratio 15kV 120 7/13/16				Arteche
VCE-17	35:1 – 40:1 Marked Ratio 15Kv 120 1/24/18				Arteche

GENERAL ELECTRIC

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
JVW-3	2400, 4200, 4800	120	5000	08-04-59	L.I.L.	05-03-71
JVW-4	2400, 4200, 4800, 7200 Modification	120	8700		N.M.P.	
JVW-5 JVW-5C	7200, 8400, 12000, 14400	120	15000			

JVM-3	2400, 4200, 4800	120	5000	12-22-59	L.I.L.	05-03-71
JVM-4	4200, 4800, 7200	120	8700		N.M.P.	
	Modification					10-19-60
	7200, 8400, 12000, 14400					
JVM-5	115000	120	15000			
ET-11	240	115	115000	09-27-60		
JVPO	288	120	416	12-28-60	RG&E	
JVPO	300	120	480			06-10-87
JVPO	480	120	480			03-14-63
JVPO	600	120	480			
JVPO	34500	120	600			
ES-200	69000	115		09-09-87	RG&E	
EW-450	69000	69/115	115000	04-09-63	NYSEG	
EW-550	80500	69/115	115000			
EW-650	92000	67.08/115	138000			
EW-750	13800	67.71/115	161000			03-14-63
EW-900	207000	69/115	230000			
EW-1175	207000	69/115	345000			
EW-1300	24000	69/115	345000	04-23-63	NYSEG	
ET-150	27600	120	24000			
ET-200	34500	115	34500			
ET-200	46000	115	34500			
ET-250	69000	115	46000			
ET-350	25000	115	69000	05-24-66	N.M.P.	
JVS-150	34500	72/120	150000	05-24-66	N.M.P.	
JVS-200		67/115	200000			

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
NXVT	115-765kV	5/120		06/05/04	NGRID	10/20/05

Nissen Electric

SVR-34C	207kV	69/115	345	8-30-06	HVB Power	3-7-06

KUHLMAN ELECTRIC

POF	34.5 – 138kV			9-19-07	Kuhlman	9-19-07
UTF	138-230kV			9-19-07	Kuhlman	9-19-07
UTF	345kV			2-20-09	Kuhlman	1/30/09

GENERAL ELECTRIC

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
JVT-150	25000 Modification	120	150000	05-24-66	N.M.P.	05-04-71
JVT-200	34500	115	200000	05-24-66	N.M.P.	"
JVT-200	27600	115	200000	05-24-66	N.M.P.	"

JVS-250	27600 40250 46000 69000	69/115	250000	09-13-67	N.M.P.	
JVS-350	120,240,288,300,480,600	67/115	350000	09-13-67	N.M.P.	
JVT-250	160	115 115	250000	09-13-67	N.M.P.	
JVT-350		120 120	350000	09-13-67	N.M.P.	
JVA-0		25n 120	600	09-13-67	N.M.P.	
JE-27		115	2500	06-06-68	CON ED	
JVW-110	JVW-110C 7200, 8400, 12000, 14400	120	15000	07-20-71	N.M.P.	
EW-900Y	138000	120	15000	08-31-72	N.M.P.	
JVM-95	7200, 8400, 12000, 14400	120	15000	03-12-74 06-09-75	N.M.P.	
JVW-110	60-70/1 Revised design	120	150kv	12-28-78	N.M.P.	05-13-68
JVW-7	27.6 and 34.5kv,	120				
JVW-4A	175/1, 240/1, 300/1	120	8700	12-04-97	NYSEG	
	2400, 7200	120	15000	12-04-97	NYSEG	12-24-73
JVW-5A	JVW-SAC 7200, 14400	120	8700	12-04-97	NYSEG	
JVM-4A	2400, 7200 7200, JVM-5A 14400	120	15000	12-04-97	NYSEG	
120 - 600		120	10000	02/19/03	GE	02-13-97
JVA-0C	69.3 - 600	120	10000	02/19/03	GE	02-13-97
JVM-0C	2400 - 4800	120	60000	02/19/03	GE	02-13-97
JVM-3C	4200 - 7200	120	75000	02/19/03	GE	02-13-97
JVM-4C	4200 - 7200	120	75000	02/19/03	GE	
JVM-4AC	7200 – 14400	120	110000	02/19/03	GE	
JVM-5C	7200 – 14400	120	110000	02/19/03	GE	
JVM-5AC	12000 – 24000	120	125000	02/19/03	GE	
JVM-6C	24000, 27600, 34500	69/115	150kV	08-29-03	GE	
PT7-2-150*	24000, 27600, 34500		200kV	08-29-03	GE	
PT7-2-200*			1300kV	05-20-2024	GE	
* Approved on similarity to JVM series						
T155-VT3	362000		***NxTPhase***			
Case #23-E-0672						08-20-03
		120	350-2100kV			08-20-03
				06/05/04	NGRID	11-10-2023
NXVCT	69-765kV range 0-4000amps		***WESTINGHOUSE/ABB***			10/20/05

SEC. TYPE	**INSULATION PRIMARY VOLTS**	**APPROVED VOLT**	**TESTING LEVEL**	**APPROVAL DATE**	**ENTITY**	**SUBMITTED**

EMPL					
EMPL	240	120	600-1200		
EMPL	288	120	600-1200	05-10-60	RG&E
EMPL	300	120	600-1200		
EMPL	480	120	600-1200		
APT-550	600	120	600-1200		
Tertiary	69000	69/115	115000		
Tertiary		69/115		12-13-60	N.M.P.
APT-150	14400 (1-Bushing)	72/120	24000		
APT-200	20125 (1-Bushing)	67.08/115	34500	01-15-63	NYSEG
APT-250	27600 (1-Bushing)	69/115	46000		
APT-350	40250 (1-Bushing)	67.08/115	69000		
APT-150	24000 (2-Bushing)	69.3/120	24000		
APT-200	34500 (2-Bushing)	66.4/115	34500	01-15-63	NYSEG
APT-250	46000 (2-Bushing)	66.4/115	46000		
APT-350	69000 (2-Bushing)	66.4/115	69000		
APT-200	27600	115	27600		
PTM5	2400/4160Y	120	5000	04-09-63	Con-Ed
PTM15	through		through	07-21-64	Con-Ed
PTOM5	14400/14400Y	120	15000		
PTOM15	2400/4160Y	120	5000	08-11-64	Con-Ed
APT-150	through	120	through		
PTM and	14400/14400Y	69.3/120	15000		
PTOM-75	24000/14400V		25000	06-06-68	Con-Ed
PTM and	25 cycle	120			
PTOM-110	4200/7280Y		75kv	12-19-68	L.I.L.
PPM	through		through		
VOG-11	14400/14400Y		110kv		
	240, 288, 300, 480, 600	120			
	7200, 7620, 8400	120	10kv	03-09-82	N.M.P.
			15kv	02-07-83	N.M.P.

					04-18-60
					09-21-60
					10-29-62
					03-12-63
					06-16-64
					07-09-64
					05-24-68
					03-30-81

WESTINGHOUSE/ABB

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
VOY-60	2400-4800 7200-14400 7200-14400	120	60kV	03-09-82	N.M.P.	03-30-81

VIZ-11	Indoor 2400-4800	120	110kV	09-22-83	Cen-Hud	03-03-83
VOZ-11		120	110kV	10-07-83	Cen-Hud	03-03-83
VIY-60*	Indoor 2400-7800	120	60kV	12/02/03	ABB	11/10/03
	Indoor 12000-24000					

VIZ-75* Outdoor 2400-7200 (2 Bushing) 120 75kV 12/02/03 ABB 11/10/03 VIZZ-15* Outdoor 7200-14400 (2 Bushing) 120 150kV 12/02/03 ABB 11/10/03

VOZ-75*	Outdoor 12000-24000 (2 Bushing)	120	75kV	12/02/03	ABB	11/10/03
VOY-11*		120	110kV	12/02/03	ABB	11/10/03
	Outdoor 12000-24000 (1 Bushing)					
VOY-12*	Outdoor 12000-24000 (2 Bushing)	120	125kV	12/02/03	ABB	11/10/03

VOG-12* 120 125kV 12/02/03 ABB 11/10/03 V0Y-15* Outdoor 12000-24000 (1 Bushing) 120 150kV 12/02/03 ABB 11/10/03

VOY-15G*	Outdoor 12000-24000 (2 Bushing)	120	150kV	12/02/03	ABB	11/10/03
	Outdoor 21000-34500 (2 Bushing)					
VOZ-15*	Outdoor 21000-34500 (1 Bushing)	120	150kV	12/02/03	ABB	11/10/03
VOHD-200*	Outdoor 21000-34500 (2 Bushing)	120	200kV	12/02/03	ABB	11/10/03
VOHD-200G*	Outdoor 21000 (1 Bushing)	120	200kV	12/02/03	ABB	11/10/03
VOZZ-20*	Outdoor 21000-34500 (2 Bushing)	120	200kV	12/02/03	ABB	11/10/03

VOZZ-20G* Outdoor 21000 (1 Bushing) 120 200kV 12/02/03 ABB 11/10/03 VOY-20* Indoor, 60Hz 120 200kV 12/02/03 ABB 11/10/03 VOY-20G* Indoor, 60Hz 120 200kV 12/02/03 ABB 11/10/03

PTM-75 11-19-68 L.I.L. PTM-110 11-19-68

* Approved on similarity to VOG-11, VOY-60, VIZ-11 and VOZ-11 (approved in 1980s)

SANGAMO/SCHLUMBERGER

T-6	240 288 480 600	120	600	05-22-62	N.M.P.	
T-6	120, 240, 288, 300, 480, 600	120				
T-6		120				
T-6		120				
T-6A		120	600	07-08-80	NYSEG	02-20-80

ASTRA

DB	120, 240, 288, 300, 480, 600	120	600	08-29-77	RG&E	11-22-78

ASSOCIATED ENGINEERING COMPANY/KUHLMAN ELECTRIC CORP

TYPE	PRIMARY VOLTS	VOLT	SEC. INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
SPOF-200	34,500 AND 27,600	115	34,500	03-06-87	Con-Ed	12-29-86
SPOF-200-2	34,500 AND 27,600	115	34,500	08-01-00	Con-Ed	

SQUARE "D" COMPANY/HAEFELY TRENCH / TRENCH LTD.

U2				08-11-86	N.M.P.	01-24-86
U3				08-11-86	N.M.P.	01-24-86
UT				08-11-86	N.M.P.	01-24-86
U2H				08-11-86	N.M.P.	01-24-86
U3H				08-11-86	N.M.P.	01-24-86
UH				08-11-86	N.M.P.	01-24-86
115U3-550-115 kV				12-23-88	N.M.P.	06-07-89
115U3H-550-115 kV				12-23-88	N.M.P.	06-07-89
69UT3-350-69kV				11-14-90	N.M.P.	12-28-89
69UT3H-350-69kV				11-14-90	N.M.P.	12-28-89
115UT3-550-115kV				11-14-90	N.M.P.	12-28-89
UT3H-550-115 115kV				11-14-90	N.M.P.	12-28-89
115kV			900	10-20-95	N.M.P.	09-08-95
UT5115kV		115	900	10-20-95	Trench	09-08-95
UT5H$_{UT5-900-230*\ 230kV}$		115	1050	9-3-03	Trench	2-18-03
UT5H-900-230* 230kV		115	1050	9-3-03 9-3-03	Trench	2-18-03
UT5-1050-230* 230kV		115		9-3-03	Trench	2-18-03
UT5H1050-230* 230kV		115		9-3-03	Trench	2-18-03
		120	420kV	2-8-06	ABB/Trench	6-14-05
				7-18-12	Cricket	2-9-12
				6-19-19		2-22-19

N5 and N5H 69kV-230kV Upgrade core
SU 362..550 345kV
SU 420/B83T

* Approved on similarity to UT3 and UT5 69kV and 115kV models

GEC ALSTHOM

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
UXT-069	69000	115		09-11-95	L.I.L.	10-18-94
UXT-115	115000	115		09-11-95	L.I.L.	10-18-94
UXT-138	138000	115		09-11-95	L.I.L.	10-18-94
SVS	115-765kV			09-18-95	N.M.P.	01-21-94

MWB MESSWANDLER/HAEFELY TRENCH

SF6 Gas Insulated

GENERAL ELECTRIC

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
MB-150	10/20, 25/50, 100/200, 200/400	34.5kv	5	09-30-75	O & R GE	02-20-74 03-28-80
MVCT-200	34,500	115	up to 400	08-18-87	RG&E	06-02-87

KUHLMAN ELECTRIC CORP

TYPE	PRIMARY VOLTS	SEC. VOLT	INSULATION LEVEL	APPROVED DATE	TESTING ENTITY	APPROVAL SUBMITTED
	50/100,					

FERRANTI PACKARD

34,500	**VOLTS**	115	5	07-07-89	RG&E	03-02-89

MWB MESSWANDLER/HAEFELY TRENCH

KM-35	115-765kV	120/208/240 277/480	SF6 Gas Insulated		09-18-95	N.M.P.	01-21-95

NxtPhase

SVAS	1 to 3000	69-765kV	Opitical	06/05/04	NGRID	10/20/05

ITEC

NXVCT			**AMP.**			
	VOLTS	5	**DATE**	**TESTING ENTITY**	**APPROVAL SUBMITTED**	
TYPE	5000 34.5-115Kv 34.5-115Kv 34.5Kv 46-115Kv	600 600		11-19-15 11-19-15 11-19-15 11-19-15 11-19-15	NYSEG NYSEG NYSEG NYSEG NYSEG	5/28/15 5/28/15 5/28/15 5/28/15 5/28/15
DDC-938 CT CTO 200-500 CVTO 200-500 SVTO VTO						

SUBMETERS

	CLASS	**WIRE**	**APPROVED**	**TESTING ENTITY**	**APPROVAL SUBMITTED**
		DENT INSTRUMENTS INC.			
TYPE	Indoor Multifamily	2-4 wire	12/19/2022 Case #22-E-0179	MET LABS	3/29/2022
PowerScout					
		EATON			
Power XPert Indoor					

	Multifamily	120/240	4 wire	4/22/15	UL LABS	2/4/2015
			ELECTRO-INDUSTRIES/GAUGETECH			
Shark200	Indoor Single Family	120/240	4 wire	1/16/18	MET LABS	1/20/16
			HONEYWELL			
X-Mon	Indoor Multifamily	120/208/240 277/480	2-4 wire	2/28/2024 Case #22-E-0179	Similarity	10/20/2023
			INTECH21			
PM2104	Indoor Single family	120/240	4 wire	11/20/13 9/8/14	MET LABS	8/27/2013
			LEVITON			
Mini-Meter	Indoor Single Family	120/240	4 WIRE	11/20/13	MET LABS	8/23/2013
Series 8000 Indoor (V2.04)	Multifamily	120/240	4 wire	5/20/15	MET LABS	3/3/2014
Series 8000 Indoor (V2.05)	Multifamily	120/240 120/208/240 277/480	4 wire	8/14/18	Similarity	7/31/2018
VerifEye	Indoor			10/5/2023 Similarity Case #22-E-0179		2/14/2023
Series 7000	Multifamily	120/208/240 277/480	2-4 wire			6/14/24
VerifEye Series 8000	Indoor Multifamily		2-4 wire	12/5/24	Similarity Case 23-E-0548	***QUADLOGIC CONTROLS***
Mini-Closet miniQloset	Indoor Multifamily					

5N	Multifamily	120/208	4 wire			
S10T	Indoor Single family	120/208	4 wire			
S10N	Indoor Single family	120/208	4 Wire			
Mini Closet	Indoor Multifamily	120/208	4 wire			
MC-5N-JQ	Indoor	120/208	4 wire			
QBrick6	Multifamily Indoor	120/208	4 wire			
QBrick4	Multifamily *based on similarity to QBrick6		4 wire			
QBrick	Indoor Case #23-E-0220	120/240				

GRIDGEAR SOLUTIONS LTD.

GG Model 120 single phase 2 wire, 120/240 single phase 3 wire, 120/208 3 phase 4 wire wye 10/21/2020 UL Labs 11/26/2019
Multifamily, Commercial

SATEC

BFM-136	Indoor Multifamily	120/240				
EM-133	Indoor Single family	120/240	4 wire	3/4/2015	UL Labs	6/3/2014
BFMII	Indoor Multifamily	120/240	4 wire 4 wire	10/15/2015 2/28/2018	UL Labs UL Labs	9/9/2014 7/5/2017
EM-133-SPDR	Indoor	120/240	4 wire	8/28/2018	Similarity	8/7/2018

	Multifamily					

SIEMENS

SEM3	Indoor Multifamily	120/240	4 wire	12/17/2015	UL Labs	12/22/2014

TRIACTA

6103 6112 (V2.05)	Indoor Multifamily	120/240 100mA	4-wire	6/10/2015	Similarity Leviton Data	3/3/2015
6103 6112 6303 6312 (V2.05)	Indoor Multifamily	120/240 80mA	4-wire	6/10/2015 8/14/2018	Similarity Similarity	3/3/2015 7/31/2018
6103 6112 (V2.08)	Indoor Multifamily	120/240 100mA	4-wire	3/20/2024 Case 23-E-0548	Eurofins	9/28/2023
6303 6312	Indoor Multifamily	120/240 80mA (V2.08)	4-wire Case 23-E-0548	3/20/2024	Eurofins	9/28/2023

Schneider Electric PowerLogic

EM4880 (V2.05)	Indoor Multifamily	120/240 80mA	4-Wire	10/3/16	Similarity Leviton	6/30/2016
EM4880 (V2.05)	Indoor Multifamily	120/240 80mA	4-Wire	8/14/18	Similarity Leviton	7/31/2018

METRETEK

TYPE	CHANNELS	VOLTAGE	DATE	TESTING ENTITY	APPROVAL SUBMITTED
SIP-AC	4	120 w/12V DC Power Supply	04/23/90	NYSEG	
SIP-B	4	w/12V DC Power Supply			
CMU	2				

TYPE	CLASS FORM	VOLTS WIRE	APPROVED	TESTING ENTITY	APPROVAL SUBMITTED
ConnectDER					
Smart ConnectDER *Not for use with Durham UG-H4213B-CC ringless meter pans, or any physically incompatible meter pan.	100 2S/12S	120/240 3	9/28/2020	UL Labs Con Edison	9/18/2019
Solar Collar	2S/12S	120/240 3	4/5/2024	Similarity Con Edison	2/14/2024
Tesla					
Tesla Backup Switch For PowerWall	Form 2S	200 Amps	11/29/2023	Intertek/ National Grid	3/8/2023

AUTOMATIC METER READING DEVICE

CONSERT COMMUNICATE CONTROL

TYPE	DESCRIPTION	DATE	TESTING ENTITY/ENTITY
Tru Smart Energy Gateway	Retrofit module for GE I210 Cl200, 240Vac	4/21/11	Central Hudson
	GE I210+ cn Form 25S	9/8/11	Con Edison
	SEG Card with Gobi Modem	12/13/11	Con Edison
	GE kV2c-SEG card & Gobi Modem	11/26/12	Con Edison

ITRON

TYPE	DESCRIPTION	DATE	TESTING ENTITY/ENTITY
40E ERT Module	Retrofit Transmitter Module	10-13-95	RG&E
40ER-1	Retrofit Module, single-phase GE, ABB and L&G meters	10/10/96	RG&E
40EN	Retrofit Module, Polyphase meters	10/10/96	RG&E
41ER-1	Retrofit Module	2/24/99	JBPU
45ERT Series	Retrofit Module 45ER-1 ABB, GE, Siemens; 45ES-1 Schlumberger; 45EN-1 ABB Polyphase Meters.	9/18/02	ITRON
52ESS	Net metering capabilities as Delivered – Received	6/18/09	Central Hudson
53ESS	For GE kV2c capable in Delivering – Received data	3/26/12	National Grid
54ESS	For GE I-210+ series to Store and transmit data	7/18/12	National Grid

55ESS	For GE I-210+ series to Store and transmit data	7/18/12	National Grid
56ESS	For GE I-210+ series to Store and transmit data	7/18/12	National Grid
57ESS	For GE I-210+c series to Store and transmit data	7/18/12	National Grid

SCHLUMBERGER

R300	Radio Frequency Meter Interface Unit Single Phase Version	6/11/01	Based on Similarity
R300C	Radio Frequency Meter Interface Unit Centron Version	6/11/01	Based on Similarity
R300V	Radio Frequency Meter Interface Unit Vectron Version	6/11/01	Based on Similarity

HUNT TechnologieS

TS1 and TS2	RF Power Line Carrier Automatic Meter Reading Device	4/11/06	Hunt Technologies

Landis+Gyr

Comverge	Landis+Gyr Comverge Maingate AMR Module	4/20/06	National Grid
Metrum	Landis + Gyr Metrum OV2000IP	9/27/10	National Grid
Metrum	Utiliwise External Module	6/18/12	National Grid

AUTOMATIC METER READING DEVICE

SILVER SPRING/ITRON

I-210+, GE Kv2c with remote disconnect	6/18/09	Con Edison Con
Socket AP - APPROVED WITH LIMITATIONS REFER TO CASE 16-E-0376	7/24/2017	Edison Con
Socket Access Point (ringless version) **approved based on similarity, and with limitations, refer to Case 16-E-0376*	3/17/2022	Edison/O&R

TRILLIANT NETWORKS

Trilliant SecureMesh Communication Card GE I-210+, Itron Centron, L+G Focus, Itron Sentinel	10/19/09	Central Hudson
Trilliant Cell Reader communication Card GE kV2c+	3/28/11	National Grid