

**EQUIPMENT LISTING, X-533 SWITCHYARD**

<b>Item No</b>	<b>Item</b>	<b>Description</b>	<b>Estimated Commercial Value (Reuse)</b>	<b>Estimated Scrap Value</b>	<b>Location</b>
1	Failed 345kV transformer	Allis-Chalmers, 125 MVA Transformer, 345kV- 13.8kV	None (scrap)	\$50,000	X-533
2	“Spare” 345kV transformer	General Electric, 125 MVA Transformer, 345kV-13.8kV	None (scrap)	\$50,000	X-533
3	“Spare” Grounding Transformer	General Electric, 13.8kV Grounding Transformer	None (scrap)	\$10,000	X-533
4	345kV/13.8kV, 125 MVA Transformers, with load-tap changers:	Westinghouse (older type): 4 units,	\$100,000 Ea. (\$400,000 Total)	\$50,000 Ea. (\$200,000 Total)	X-533A
		Westinghouse (newer type): 8 units,	\$500,000 Ea. (\$4,000,000 Total)	\$50,000 Ea. (\$400,000 Total)	
		Allis-Chalmers: 1 unit	\$100,000	\$50,000	
		General Electric: 2 units	\$100,000.00 Ea. (\$200,000 Total)	\$50,000 Ea. (\$100,000 Total)	
		McGraw-Edison: 1 unit	\$100,000 Ea.	\$50,000	
5	13.8kV Grounding Transformer	General Electric, 13.8 kV, Zigzag type, Grounding Transformer: 16 units.  <b>NOTE: 5 units are PCB Contaminated.</b>	None (scrap)	\$10,000 Ea. (\$160,000 Total)	X-533A

Item No	Item	Description	Estimated Commercial Value (Reuse)	Estimated Scrap Value	Location
6	18, 345 kV Gas Circuit Breakers (GCBs)	General Electric-Hitachi, Sulfur Hexafluoride (SF6), 345 kV, 2000 Amp, Gas Circuit Breakers	\$50,000 Ea. (\$900,000 Total)	\$10,000 Ea. (\$180,000 Total)	X-533A
7	345 kV Disconnect Switches	Vertical lift disconnect switches, 345 kV: 40, three phase units  Side break, motor operated disconnect switches, 345 kV: 16, three phase units.	\$3,000.00 Ea. (\$120,000 Total)  \$5,000.00 Ea. (\$80,000 Total)	\$500.00 Ea. (\$20,000 Total)  \$100Ea. (\$1,600 Total)	X-533A
8	13.8 kV Air Circuit Breakers (ACBs)	General Electric, 5000 Amps: 4 units  General Electric, 2000 Amps: 10 units  Brown-Boveri, 5000 Amps: 28 units  Brown-Boveri, 2000 Amps: 106 units	Requested by USEC Paducah  Requested by USEC Paducah  \$3,000.00 Ea. (\$84,000 Total)  \$2,000.00 Ea. (\$212,000 Total)	N/A  N/A  \$500.00 Ea. (\$14,000 Total)  \$500.00 Ea. (\$53,000 Total)	X-533B
9	Synchronous Condensers	General Electric, 60,000 KVA, 600 RPM Synchronous Motors (Condensers): 4 units  Elliotts, 25,000 KVA, 600 RPM, Synchronous Motors (Condensers): 6 units	None (scrap)  None (scrap)	\$20,000 Ea. (\$80,000 Total)  \$5,000.00 Ea. (\$30,000 Total)	X-533B

Item No	Item	Description	Estimated Commercial Value (Reuse)	Estimated Scrap Value	Location
10	High Voltage structural steel support	Bolted, latticed, galvanized angle iron supports for 345 kV equipment.	None (scrap)	\$.02/Lb.	X-533A
11	Oil Piping	Assortment of 2" to 3" piping for oil handling.	None (scrap)	\$.02/Lb	X-533A
12	Piping	Air, sanitary water, Fire Water, and Re-circulating cooling water	None (scrap)	\$.02/Lb	X-533A & 533B
13	13.8 kV bus, with weather tight enclosure	Approximately 1,500' of three phase, 4" square copper bus inside 18" aluminum, weather tight enclosure.	None (scrap)	\$15,000	X-533B
14	Auxiliary Transformers	13.8/2.4 kV, 2500 KVA, Dry Type: 2 units  2400/480 Volt, 300 KVA, Dry Type: 2 units; 150 KVA, Dry Type: 1 unit; 112.5 KVA, Dry Type: 2 units  2400/208 Volt, 500 KVA, Dry Type: 2 units; 300 KVA, Dry Type: 3 units (one failed); 150 KVA, Dry Type: 2 units	\$10,000.00 Ea. (\$20,000 Total)  \$5,000.00 Ea. (\$20,000 Total)  \$3,000.00 Ea. (\$18,000 Total)	\$1,000 Ea. (\$2,000 Total)  \$500.00 Ea. (\$2,000 Total)  \$500.00 Ea. (\$3,000 Total)	X-533B
15	Switchgear:	2400 Volt: Westinghouse, Type 50 DHP250 Breakers: 14 units 480 Volt Motor Control Centers (MCC), varied assortment of breaker sizes: 12 units.	None (scrap)	\$3,000  \$1,000	X-533B
16	Non-structural steel	Pipes, valves, and other non-structural steel items	None (scrap)	\$.02/Lb.	X-533A, 533B, 533C, & 533D
17	Power Cable	Misc. assortment of power cable, including: Paper Insulated, Lead Sheathed Cable, (PILC), and solid di-	None (scrap)	\$10,000	X-533B

		electric cable.			
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18	Tanks	Steel Tanks: 2 - 34,000 Gallon, 2 – 15,000 Gallon	None (scrap)	\$.02/Lb.	X-533A
19	High Voltage (15 kV) Switches	Park Ohio, 600 Amp, 15 kV Air Break Switches, 4 units  2,000 Amp, 15 kV Air Break Switches: 6 units	\$10,000.00 Ea. (\$40,000 Total)  None (scrap)	\$1,000.00 Ea. \$1,000 - Tot  \$6,000	X-533B
20	Control cable	Assorted sizes and various voltage classes of wiring	None (scrap)	\$3,000	X-533A
21	Concrete Foundations	Structural concrete foundations, concrete floors	None (scrap)	None (scrap)	X-533B, 533C, & 533D
22	Air Compressors	10 HP, 480 Volt, electric air compressor: 24 units	None (scrap)	\$.02/Lb	X-533B
23	Heating, Ventilating, Air Conditioning (HVAC)	Steam heat exchanger, air conditioning, and air handler unit, also one handler in each wing section.	None (scrap)	\$.02/Lb	X-533B
24	M-G set (Amplidyne)	General Electric, 7.5 KW Motor/Generator, 480 Volt AC/250 Volt DC : 4 units	\$500.00 Ea. (\$2,000 Total)	\$50.00 Ea. (\$200 Total)	X-533B
25	Insulating Oil	New Insulating Oil (34,000 Gal.)  Used Insulating Oil (64,000 Gal.)	USEC/Paducah  \$1.00/Gallon (total volume of 64,000 Gallons)	N/A  \$.10/Gallon- \$6,400.00	X-533A  X-533A
26	345 kV Bushings	345 kV Insulators (Transformer Bushings): 10 units	None (scrap)	\$500	X-533A

Item No	Item	Description	Estimated Commercial Value (Reuse)	Estimated Scrap Value	Location
27	Breaker Panels	Westinghouse, 120/208 Volt, 100 Amp, 14 Pole Breaker Panel: 9 units:	None (scrap)	\$100	X-533B
		120/208 Volt, 200 Amp, 42 Pole Breaker Panel: 7 units	\$200.00 Ea. (\$3,200 Total)	\$320	X-533A
		208 Volt, Load Centers/Automatic Transfer Switches: 16 units	None (scrap)	\$60	X-533B
28	Synchronous Condenser Grounding Transformer	Westinghouse, 125 Volt, DC, 100 Amp, Emergency Breaker Panel: 6 units			
		50 KVA, 13.8 kV/120-240 Volt, single phase transformer: 10 units; <b>NOTE: 6 of these units are PCB, pole mount type units.</b>	None (scrap)	\$400	X-533B
		50 KVA, 13.8 kV/120/240 Volt, single phase, pad mount type transformers (new): 4 units	\$1,000.00 Ea. (\$4,000 Total)	\$400	
30	Batteries	Storage Batteries, Lead-Acid, 2.25 Volt per cell: 240 units (2 banks of 250 Volt DC each)	USEC/Paducah	N/A	X-533B
		Storage Batteries, Lead-Acid, 2.25 Volt per cell: 60 units (1 bank of 125 Volt DC)	USEC/Paducah	N/A	
		Storage Batteries, Lead-Acid, 6 Volts each: 8 Units	None	\$40.00	
31	Battery Chargers	Solid State Battery Charger, 480 Volt input, 250 Volt DC output: 2 units	USEC/Paducah	N/A	X-533B
		Solid State Battery Charger, 120 Volts input, 125 Volt DC output	USEC/Paducah	N/A	

		Solid State Battery Charger, 120 Volt input, 48 Volt DC output.	None	\$40.00	
32	Relays	Differential Relays, GE BDD 15: 2 sets (3 units each set)	USEC/Paducah	N/A	X-533B
		Differential Relays, GE BDD 16: 2 sets (3 units each set)	USEC/Paducah	N/A	
		Phase Over Current, IAC Relays: 2 sets (4 units per set)	USEC/Paducah	N/A	X-533B
		Transmission Line Relays: 2 sets (3 units per set)	USEC/Paducah	N/A	
		Bus Relays: 2 sets (3 units per set)	USEC/Paducah	N/A	
		NOTE: There are numerous, additional relays, aside from those listed above. These units are considered scrap, with little to no scrap value.	N/A	N/A	
33	Enunciator Panel	Enunciator Power Supply & associated hardware	USEC/Paducah	N/A.	X-533B
34	SCADA RTU	Supervisory Control and Data Acquisition System, Remote Terminal Unit	USEC/Paducah	N/A	X-533B
35	Limestone Gravel	Large sized Limestone Gravel, drainage bed: 2,500,000 cubic feet.	None (scrap)	None	X-533A
36	SF6 Buggy	Sulfur Hexafluoride Gas Transfer Cart: 2 units	USEC/Paducah	N/A	X-533H
37	Air Conditioners	Window Mounted Air Conditioners: 2 units	USEC/Paducah	N/A	X-533B
38	Transformer Deluge System	Deluge System Air Compressor, Dehumidifiers: 2 each.	USEC/Paducah	N/A	X-533E & X-533F
39	Vacuum Pump	Vacuum Pump used to pump down transformer prior to filling with oil.	USEC/Paducah	N/A	X-533B

40	N2 Manifold	Nitrogen Manifold, used to keep nitrogen blanket on grounding transformers.	USEC/Paducah	N/A	X-533B
41	Mercury Switches	Mercury Switches used on the Synchronous Condenser units	USEC/Paducah	N/A	X-533B
42	X-533H	Steel Framed & Steel sided, Garage Type Building (60' X 60')	\$15,000.00	\$.02/lb.	X-533H