

SCREENING: SIMPLE CYCLE COMBUSTION TURBINES



Figure 5-4

SCREENING: COMBINED CYCLE

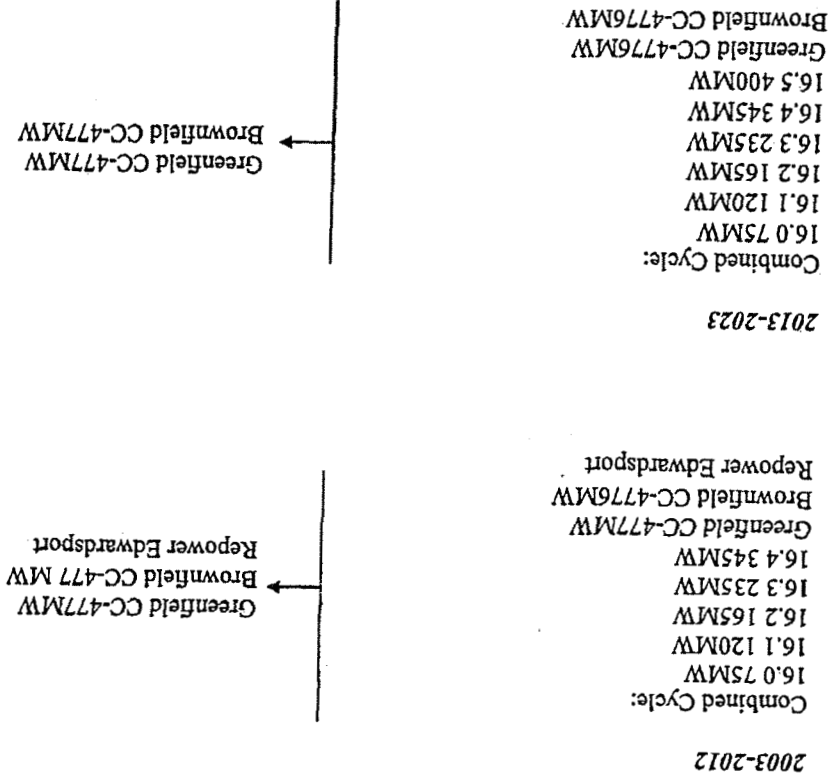


Figure 5-5

Figure 5-6

SCREENING: INTEGRATED COAL GASIFICATION COMBINED CYCLE

2003-2012

No Mature or Commercial Technologies

2013-2023

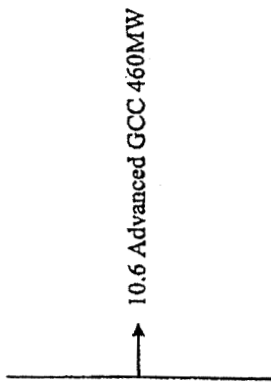
- 10.1A Shell Ent. Flow Med. Int. 568MW
 - 10.2A Texaco HR Ent. Flow Med. Int. 610MW
 - 10.3A Texaco Quench Ent. Flow Med. Int. 508MW
 - 10.4A Destec Ent. Flow Med. Int. 593MW
 - 10.5A IGCHAT 600MW
 - 10.5B IGCASH 410MW
 - 10.5C IGMCFE 400MW
 - 10.6 Advanced GCC 460MW
New Case 425MW
- 

Figure 5-7

SCREENING: FUEL CELLS

2003-2012

Phosphoric Acid:
20.1D PA Ambient Pressure 2MW

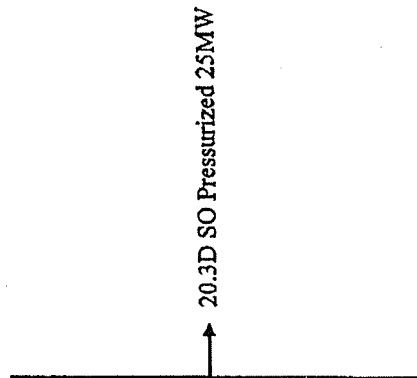
2013-2023

Phosphoric Acid and Molten Carbonate:

- 20.1A PA Pressurized 10MW
- 20.1D PA Ambient Pressure 2MW
- 20.1E PA Ambient Pressure 2.5MW
- 20.2 MC Ambient Pressure 2MW
- 20.2A MC Pressurized 10MW

Solid Oxide:

- 20.3A SO Ambient Pressure 0.5MW
 - 20.3B SO Ambient Pressure 2MW
 - 20.3C SO Pressurized 10MW
 - 20.3D SO Pressurized 25MW
- Repowering the Midwest Hybrid 10MW



SCREENING: WIND

2003-2012 Repowering the Midwest 50MW

2013-2023 24.2 Wind Turbine .35MW each
 Repowering the Midwest 100MW

← Repowering the Midwest 100MW

Figure 5-8

Figure 5-9

SCREENING: PV SOLAR

2003-2012

Repowering the Midwest Flat 10X100kW

2013-2023

- 22.2A PV Flat 1MW
- 22.2B PV Flat 5MW
- 22.2C PV Flat 10 X 5MW
- 22.2D PV Tracking 1MW
- 22.2E PV Tracking 5MW
- 22.2F PV Tracking 10 X 5MW
- 22.3A PV High Conc 1MW
- 22.3B PV High Conc 5MW
- 22.3C PV High Conc 10 X 5MW

Repowering the Midwest Flat 10X100kW

↑ Repowering the Midwest Flat 10X100kW

Figure 5-10

SCREENING: OTHER RENEWABLES

2003-2012

Municipal Solid Waste:

- 25.1 MSW Mass Burn 40MW
- 25.2 MSW Refuse Derived 40MW
- 25.3 Scrap Tire Mass Burn 40MW

Biomass-Fueled:

- 26.1 Wood-fired Stoker 50MW
 - 26.2 Wood-fired Circ. FBC 50MW
- Repowering the Midwest Biomass GCC

↑ Repowering the Midwest Biomass GCC

2013-2023

Municipal Solid Waste:

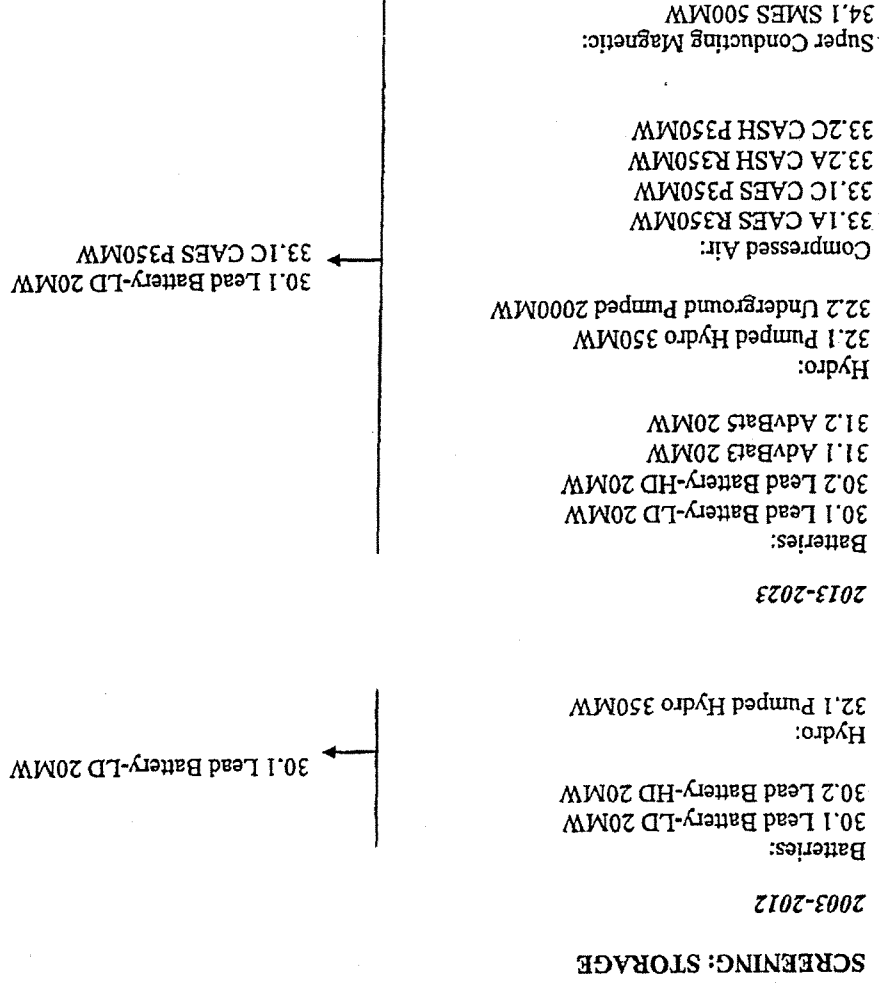
- 25.1 MSW Mass Burn 40MW
- 25.2 MSW Refuse Derived 40MW
- 25.3 Scrap Tire Mass Burn 40MW

Biomass-Fueled:

- 26.1 Wood-fired Stoker 50MW
 - 26.2 Wood-fired Circ. FBC 50MW
 - 26.3 Whole Tree 100MW
 - 26.4A Wood-fired Gas./CC- Conv. 100MW
 - 26.4B Wood-fired Gas./CC- Adv. 100MW
- Repowering the Midwest Biomass GCC

↑ Repowering the Midwest Biomass GCC

Figure 5-11



Supply-Side Screening "Best in Class" Technologies

Figure 5-29

Category	2003-2012	2013-2023
Pulverized Coal	467 MW Brownfield	467 MW Brownfield
Fluidized Bed	459 MW CFBC	350MW PFBC
IGCC	---	460 MW Adv. GCC
Simple Cycle CT	156 MW 7FA CT	156 MW 7FA CT
Combined Cycle	477 MW Greenfield CC 477 MW Brownfield CC* 453 MW Repower EdwardSPORT*	477 MW Greenfield CC 477 MW Brownfield CC*
Fuel Cell	2 MW Phosphoric Acid	25 MW Solid Oxide
Wind	50 MW Repowering the Midwest	100 MW Repowering the Midwest
Solar	10X100 kW Repowering the Midwest	10X100 kW Repowering the Midwest
Other Renewables	75 MW Repowering the Midwest Biomass	100 MW Repowering the Midwest Biomass
Storage	20 MW Battery	20 MW Battery 350 MW CAES

* Not available for ULH&P.

Note: See text for explanation of individual technology types

Figure 5-48

UNION LIGHT HEAT & POWER

SUMMARY OF EXISTING ELECTRIC GENERATING FACILITIES

STATION NAME & LOCATION	FOOT NOTES	TYPE OF UNIT*	INSTALLATION DATE MONTH & YEAR	TENTATIVE RETIREMENT YEAR	MAXIMUM GENERATING CAPABILITY (net kW)		ENVIRONMENTAL PROTECTION MEASURES*	
					SUMMER	WINTER		
East Bend Boone County Kentucky	A	2	CF-S	3-1981	Unknown	414,000	414,000	EP, LNB, CT & SO2 Scrubber, SCR
Miami Fort North Bend, Ohio		6	CF-S	11-1960	Unknown	163,000	163,000	EP & SNCR
Woodsdale Trenton, Ohio		1	GF/PF-GT	5-1993	Unknown	83,433	94,000	WI
		2	GF/PF-GT	7-1992	Unknown	83,433	94,000	WI
		3	GF/PF-GT	5-1992	Unknown	83,433	94,000	WI
		4	GF/PF-GT	7-1992	Unknown	83,433	94,000	WI
		5	GF/PF-GT	5-1992	Unknown	83,433	94,000	WI
		6	GF/PF-GT	5-1992	Unknown	83,433	94,000	WI
				Station Total:		500,598	564,000	
SYSTEM TOTAL:						1,077,598	1,141,000	

*LEGEND:

CF = Coal Fired	S = Steam	EP = Electrostatic Precipitator
OF = Oil Fired	CC = Combined-Cycle Combustion Turbine	CT = Cooling Towers
GF = Natural Gas Fired	GT = Simple-Cycle Combustion Turbine	CL = Cooling Lake
SF = Syngas Fired	HY = Hydro	WI = Water Injection, NOx
PF = Propane Fired	IC = Internal Combustion	SI = Steam Injection, NOx
		LNB = Low NOx Burners
		OFA = Overfire Air
		FGC = Flue Gas Conditioning
		SCR = Selective Catalytic Reduction
		SNCR = Selective Non-Catalytic Reduction

FOOTNOTES: (A) Unit 2 is commonly owned by The Cincinnati Gas & Electric Company (69% - Operator) and The Dayton Power and Light Company (31%). Earlier vintage LNB installed.

Figure 5-49

Maximum Net Demonstrated Capability of Jointly Owned Generating Units

<u>Station Name and Location</u>	<u>Unit Number</u>	<u>Installation Date</u>	<u>Total MW</u>		<u>CG&E Share</u>		<u>DP&L Share</u>	
			<u>Summer</u>	<u>Winter</u>	<u>Summer</u>	<u>Winter</u>	<u>Summer</u>	<u>Winter</u>
East Bend Boone County, KY	2	3-1981	600	600	414	414	186	186

NOTE: Totals may not add due to rounding to whole numbers.

Figure 5-50

APPROXIMATE FUEL STORAGE CAPACITY

<u>Generating Station</u>	<u>Coal Capacity (Tons)</u>	<u>Oil Capacity (Gallons)</u>	<u>Propane Capacity (Barrels)</u>
East Bend	375,000	500,000	--
Miami Fort	600,000	4,476,000	--
Woodsdale	--	--	100,000

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The Union Light, Heat & Power Company

2003

INTEGRATED RESOURCE PLAN

VOLUME I

GENERAL APPENDIX

April 1, 2004

By: The Union Light, Heat and Power Company.
Gregory C. Ficke, President
139 East Fourth Street
Cincinnati, OH 45202

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GENERAL APPENDIX
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ULH&P Long-Term Electric Forecast

The following pages pertain to customer demand for electric energy within the ULH&P service territory. Differences between the figures shown in this document and those contained in Volume I are due to the treatment of DSM.

UNION LIGHT, HEAT AND POWER COMPANY
FORECAST OF ELECTRIC DELIVERIES
MWH - BILLING

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	STREET LIGHTING	O.P.A.	INTER-DEPARTMENT	TOTAL RETAIL
1997	1,158,180	916,822	973,852	15,725	343,290	625	3,410,493
1998	1,217,326	974,915	1,047,913	15,713	346,919	702	3,603,489
1999	1,254,643	1,042,927	966,516	16,764	354,417	876	3,636,143
2000	1,259,784	1,161,743	1,030,210	18,028	316,288	1,761	3,787,815
2001	1,297,467	1,297,651	880,519	17,163	291,605	2,779	3,787,185
2002	1,318,690	1,249,043	773,450	20,471	281,954	2,516	3,646,164
2003	1,342,657	1,270,153	815,394	20,708	282,523	2,535	3,733,970
2004	1,365,459	1,299,138	835,764	20,980	282,710	2,555	3,806,606
2005	1,386,764	1,328,709	861,589	21,255	284,570	2,573	3,885,460
2006	1,414,184	1,357,826	892,732	21,533	287,057	2,593	3,976,025
2007	1,434,518	1,378,697	928,134	21,815	289,746	2,611	4,055,523
2008	1,460,309	1,402,816	957,145	22,099	292,766	2,631	4,137,766
2009	1,477,987	1,421,684	991,810	22,389	295,188	2,651	4,211,709
2010	1,498,358	1,440,956	1,027,500	22,677	297,456	2,673	4,289,620
2011	1,520,940	1,460,621	1,066,430	22,976	299,474	2,692	4,373,133
2012	1,542,617	1,480,414	1,105,466	23,275	301,486	2,713	4,455,971
2013	1,565,979	1,501,196	1,141,936	23,581	302,983	2,732	4,538,407
2014	1,587,034	1,522,112	1,179,412	23,892	304,304	2,753	4,619,507
2015	1,605,090	1,541,952	1,216,363	24,200	305,563	2,772	4,695,940
2016	1,625,435	1,561,347	1,255,605	24,516	306,595	2,793	4,776,291
2017	1,641,966	1,579,717	1,299,740	24,835	307,442	2,816	4,856,516
2018	1,663,963	1,599,233	1,339,078	25,162	308,237	2,837	4,938,510
2019	1,684,601	1,618,066	1,382,594	25,490	308,859	2,857	5,022,467
2020	1,704,595	1,636,736	1,425,814	25,822	309,153	2,877	5,104,997
2021	1,715,614	1,651,753	1,464,255	26,160	309,316	2,899	5,169,997
2022	1,737,733	1,669,956	1,510,073	26,501	309,806	2,923	5,256,991
2023	1,752,800	1,685,119	1,558,866	26,848	309,748	2,944	5,336,325
2024	1,778,409	1,702,319	1,608,876	27,198	309,943	2,966	5,429,711
2025	1,780,792	1,715,005	1,653,081	27,554	309,652	2,989	5,499,073
2026	1,809,411	1,729,001	1,702,766	27,814	309,620	3,011	5,581,743

GROWTH RATE	
2002-2007	1.7%
2002-2012	1.6%
2002-2026	1.3%

0.5%
0.7%
0.4%

0.7%
0.8%
0.8%

2.2%
2.0%
1.8%

NOTE: 2002 FIGURES REPRESENT TWELVE MONTHS FORECAST

(Economy.com Forecast Spring 2002)

UNION LIGHT, HEAT AND POWER COMPANY
 FORECAST OF ELECTRIC ENERGY AND PEAK DEMAND

ESAL		MWV - BILLING								
PEAK DEMAND - MW		TOTAL	RETAIL	WHOLESALE **	COMPANY	DELIVERIES	LOSSES	ENERGY	WINTER	SUMMER
1997	736	3,410,493	3,603,489	50,839	593	3,461,925	192,287	3,654,212	572	736
1998	724	3,603,489	3,636,143	0	771	3,604,260	33,536	3,637,796	586	724
1999	775	3,636,143	3,637,166	0	1,023	3,637,166	210,364	3,847,529	674	775
2000	758	3,787,815	3,789,810	0	1,996	3,789,810	222,718	4,012,529	637	758
2001	766	3,787,815	3,790,572	0	3,387	3,790,572	20,458	3,911,030	584	766
2002	831	3,646,164	3,649,703	0	3,539	3,649,703	164,444	3,814,147	700	831
2003	848	3,733,970	3,737,539	0	3,669	3,737,539	170,371	3,907,910	712	848
2004	864	3,806,606	3,810,203	0	3,597	3,810,203	172,773	3,982,976	724	864
2005	879	3,885,460	3,889,088	0	3,628	3,889,088	176,624	4,065,712	737	879
2006	890	3,976,025	3,979,660	0	3,656	3,979,660	161,177	4,160,857	750	890
2007	805	4,055,523	4,059,211	0	3,688	4,059,211	187,540	4,248,751	762	805
2008	917	4,137,766	4,141,481	0	3,715	4,141,481	185,635	4,327,116	773	917
2009	931	4,211,709	4,215,458	0	3,747	4,215,458	181,852	4,407,408	784	931
2010	946	4,289,620	4,293,396	0	3,776	4,293,396	190,677	4,482,073	796	946
2011	960	4,373,133	4,376,940	0	3,807	4,376,940	199,777	4,576,717	809	960
2012	974	4,455,971	4,459,809	0	3,838	4,459,809	203,086	4,662,895	819	974
2013	989	4,538,407	4,542,274	0	3,867	4,542,274	206,213	4,748,487	830	989
2014	1,003	4,619,507	4,623,407	0	3,900	4,623,407	210,005	4,833,412	841	1,003
2015	1,016	4,685,940	4,689,870	0	3,930	4,689,870	214,386	4,914,256	851	1,016
2016	1,030	4,770,291	4,780,254	0	3,963	4,780,254	218,073	4,998,327	864	1,030
2017	1,047	4,856,516	4,860,512	0	3,996	4,860,512	226,940	5,087,452	874	1,047
2018	1,060	4,938,510	4,942,536	0	4,026	4,942,536	224,232	5,166,766	886	1,060
2019	1,075	5,022,467	5,026,528	0	4,061	5,026,528	227,106	5,253,634	897	1,075
2020	1,089	5,104,897	5,109,089	0	4,092	5,109,089	229,344	5,338,123	908	1,089
2021	1,102	5,189,997	5,174,122	0	4,125	5,174,122	241,828	5,415,950	919	1,102
2022	1,116	5,256,991	5,261,149	0	4,158	5,261,149	240,431	5,501,580	930	1,116
2023	1,131	5,336,325	5,340,516	0	4,191	5,340,516	248,250	5,588,766	941	1,131
2024	1,145	5,429,711	5,433,936	0	4,224	5,433,936	243,319	5,677,254	955	1,145
2025	1,145	5,499,073	5,503,331	0	4,258	5,503,331	251,079	5,754,410	964	1,145
2026	1,161	5,581,743	5,586,036	0	4,293	5,586,036	254,583	5,840,619	973	1,161
2027-2028	1.8%	-NM-	0.8%	-NM-	0.8%	1.8%	2.2%	1.8%	1.7%	1.4%
2007-2008	2.2%	-NM-	0.8%	-NM-	0.8%	2.1%	2.7%	2.0%	1.7%	1.6%
2009-2012	2.0%	-NM-	0.8%	-NM-	0.8%	2.0%	2.7%	2.0%	1.6%	1.6%

** WHOLESALE REFLECTS THE LOSS OF WILLIAMSTOWN IN 1998.
 NOTE: 2002 FIGURES REPRESENT TWELVE MONTHS FORECAST.

(Economy.com Forecast Spring 2002)

UNION LIGHT, HEAT AND POWER COMPANY
 ELECTRIC CUSTOMERS BY MAJOR CLASSIFICATIONS
 ANNUAL AVERAGES

	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	STREET LIGHTING	O.P.A.	WHOLE-SALE	TOTAL CUSTOMERS	ANNUAL INCREASE	RESIDENTIAL USE PER CUSTOMER
1987	104,529	10,926	399	117	889	1	116,851	2,184	11,080
1988	106,433	11,201	400	126	886	0	119,046	2,468	11,438
1989	108,453	11,624	395	142	900	0	121,514	2,430	11,568
2000	110,477	11,958	395	192	923	0	123,944	2,098	11,403
2001	112,163	12,251	430	251	946	0	126,042	(848)	11,568
2002	111,518	12,126	400	198	952	0	125,194	977	11,825
2003	112,313	12,288	404	195	971	0	126,171	1,233	11,955
2004	113,358	12,453	407	196	990	0	127,404	1,218	12,046
2005	114,394	12,616	408	198	1,006	0	128,622	1,475	12,123
2006	115,661	12,804	409	202	1,021	0	130,097	1,459	12,227
2007	116,909	12,996	410	208	1,033	0	131,556	1,326	12,270
2008	118,046	13,170	410	214	1,042	0	132,882	1,351	12,371
2009	119,208	13,343	411	220	1,051	0	134,233	1,404	12,398
2010	120,413	13,523	411	228	1,062	0	135,637	1,445	12,443
2011	121,648	13,714	411	236	1,073	0	137,082	1,367	12,503
2012	122,830	13,891	411	243	1,074	0	138,449	1,352	12,559
2013	123,996	14,067	411	252	1,075	0	139,801	1,296	12,629
2014	125,113	14,238	411	260	1,075	0	141,097	1,262	12,685
2015	126,202	14,403	411	268	1,075	0	142,359	1,236	12,718
2016	127,268	14,566	411	276	1,074	0	143,595	1,187	12,772
2017	128,292	14,724	411	284	1,071	0	144,782	1,136	12,789
2018	129,273	14,875	411	293	1,066	0	145,918	1,100	12,872
2019	130,225	15,022	411	300	1,060	0	147,018	1,066	12,936
2020	131,147	15,164	411	309	1,053	0	148,084	1,038	12,998
2021	132,047	15,303	411	316	1,045	0	149,122	1,017	12,992
2022	132,929	15,440	411	324	1,035	0	150,139	1,005	13,073
2023	133,802	15,575	411	332	1,024	0	151,144	1,006	13,100
2024	134,674	15,711	411	340	1,014	0	152,150	1,004	13,205
2025	135,544	15,846	411	348	1,005	0	153,154	1,056	13,212
2026	136,419	15,987	411	357	996	0	154,210		13,260
GROWTH RATE	0.9%	0.9%	-1.0%	-4.3%	1.5%	-NM-	0.6%		1.1%
2002-2007	1.0%	1.1%	-0.5%	-0.6%	1.3%	-NM-	0.8%		0.8%
2002-2026	0.8%	1.1%	-0.2%	1.4%	0.3%	-NM-	0.8%		0.8%

(Economy.com Forecast Spring 2002)

NOTE: 2002 FIGURES REPRESENT TWELVE MONTHS FORECAST

Supply-Side Screening Curves

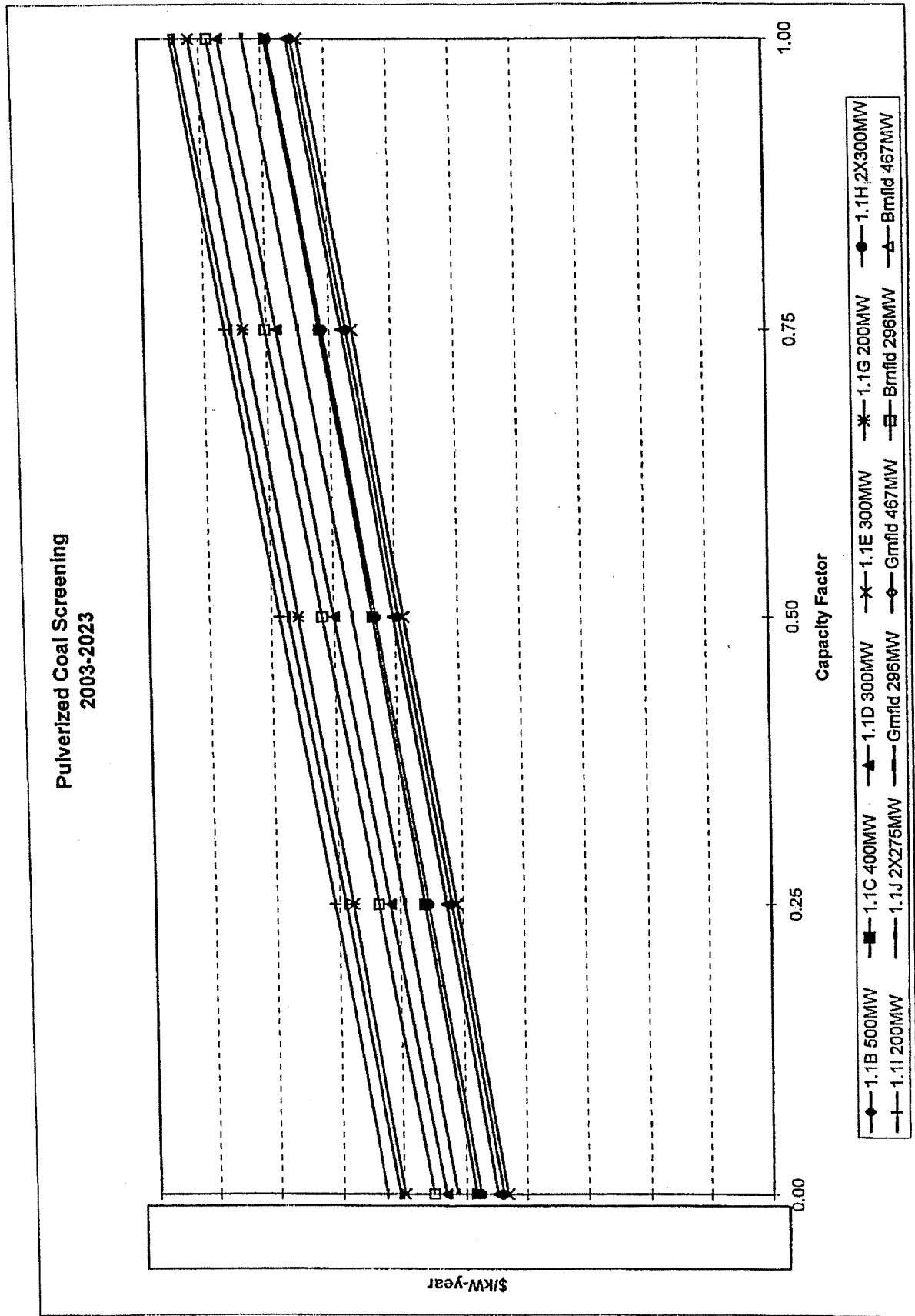
The following pages contain the screening curves and associated data discussed in Chapter 5 of this filing.

The EPRI TAG[®] is licensed material that is a trade secret and is proprietary and confidential to EPRI. Cinergy also considers cost estimates provided by consultants and its internal cost estimates to be confidential and competitive information. The redacted information will be made available to appropriate parties upon execution of appropriate confidentiality agreements or protective orders. Please contact Diane Jenner at (317) 838-2183 for more information.

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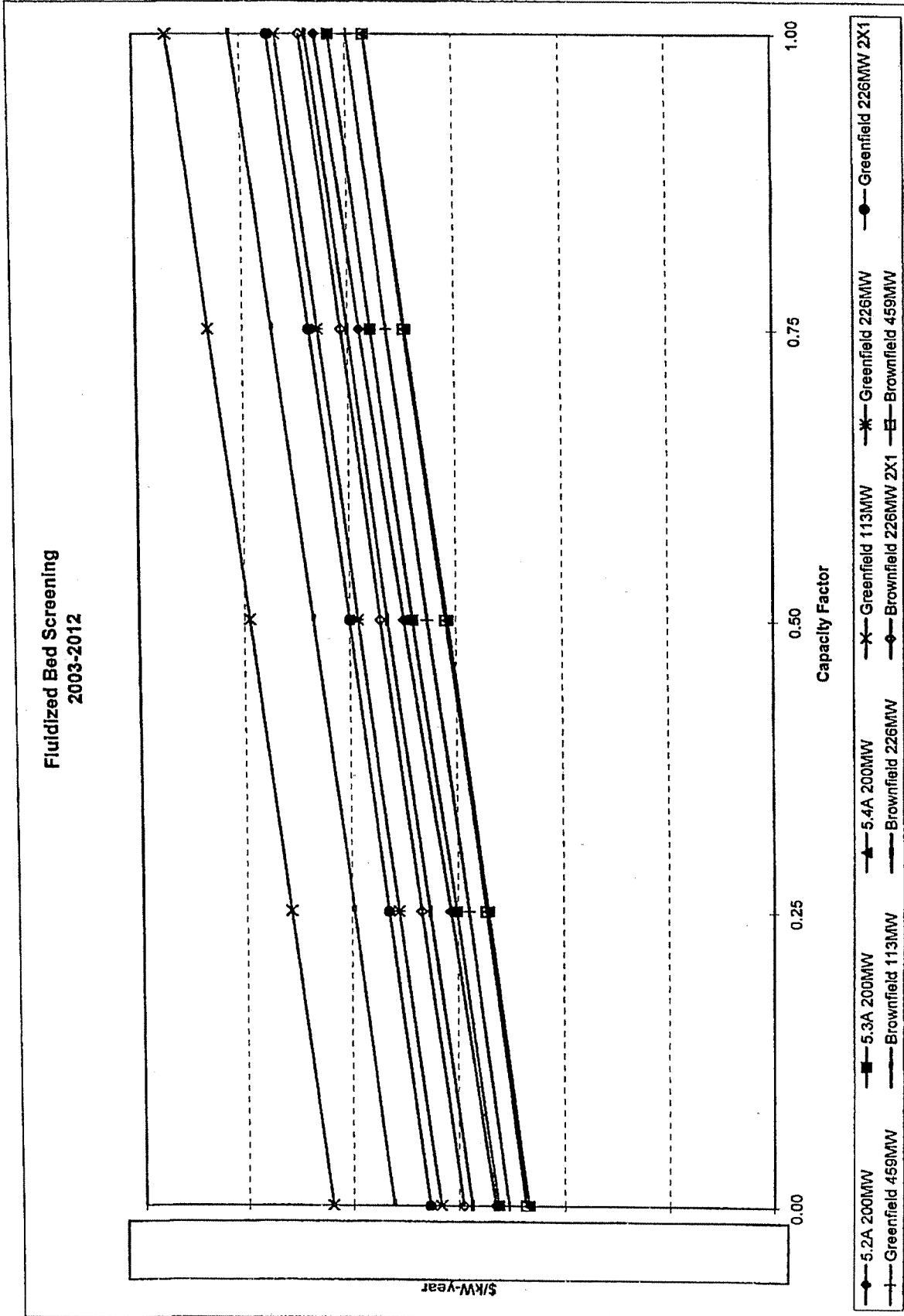
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Figure A-5-12



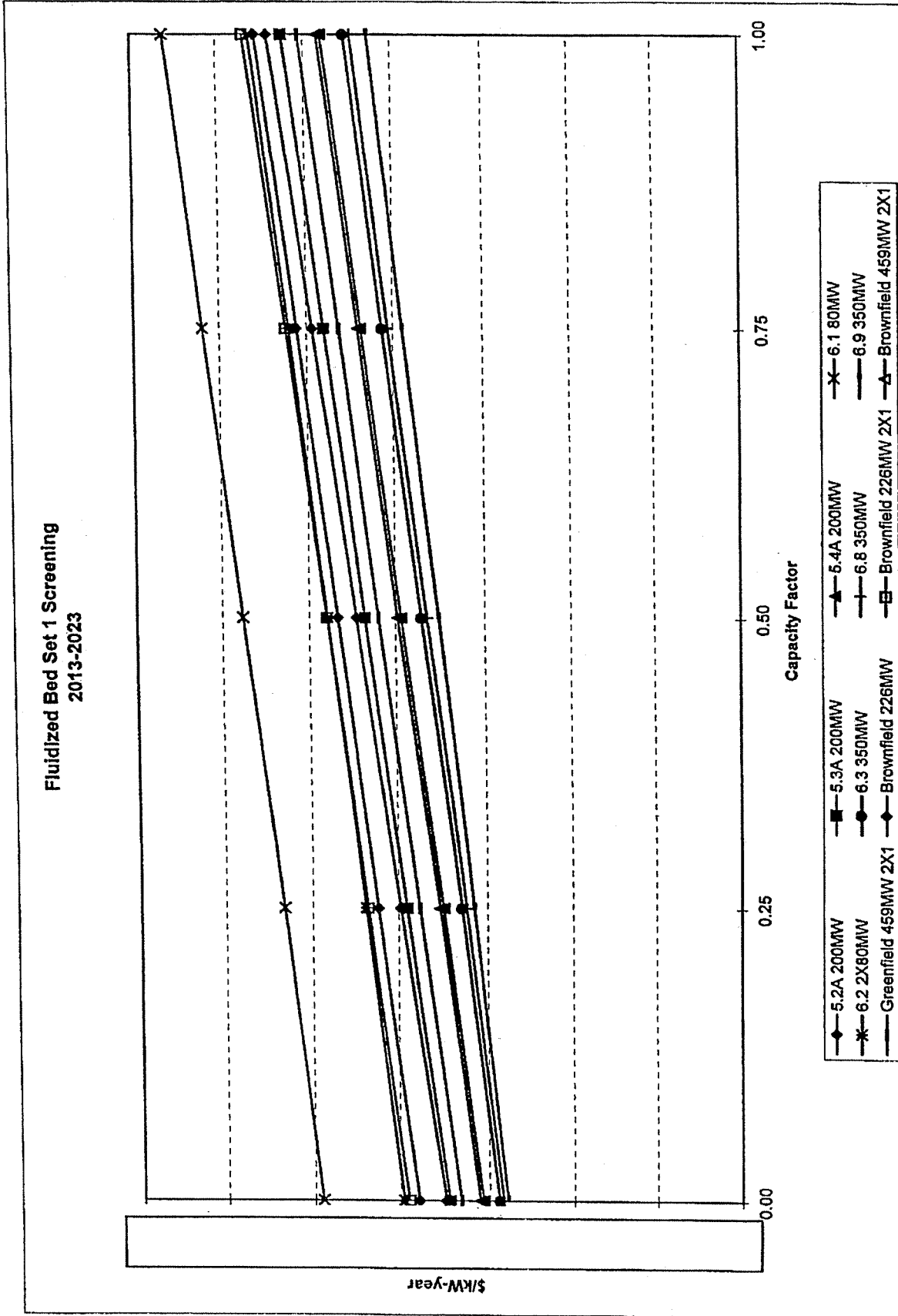
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Figure GA-5-13



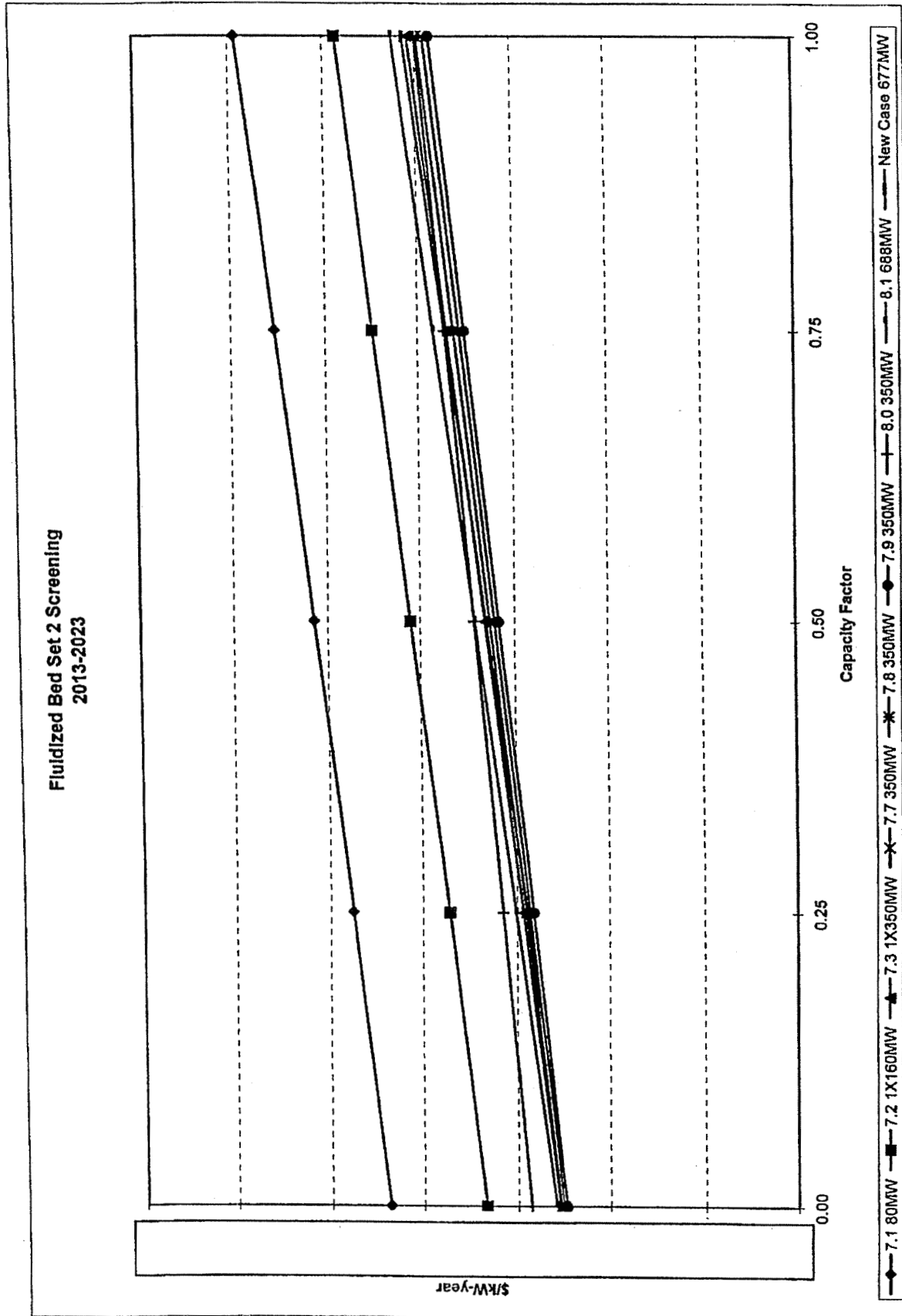
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Figure GA-5-14



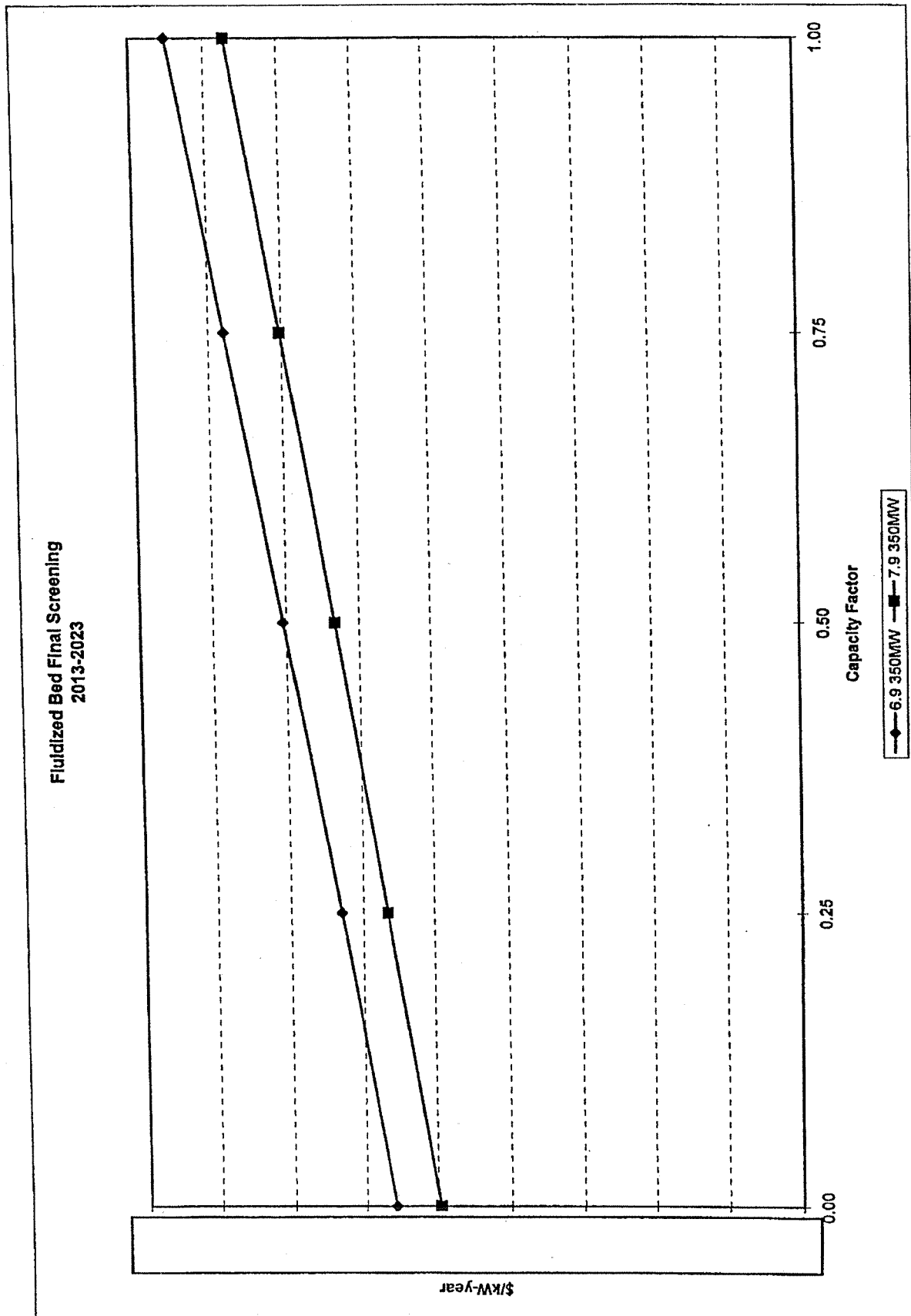
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Figure GA-5-15



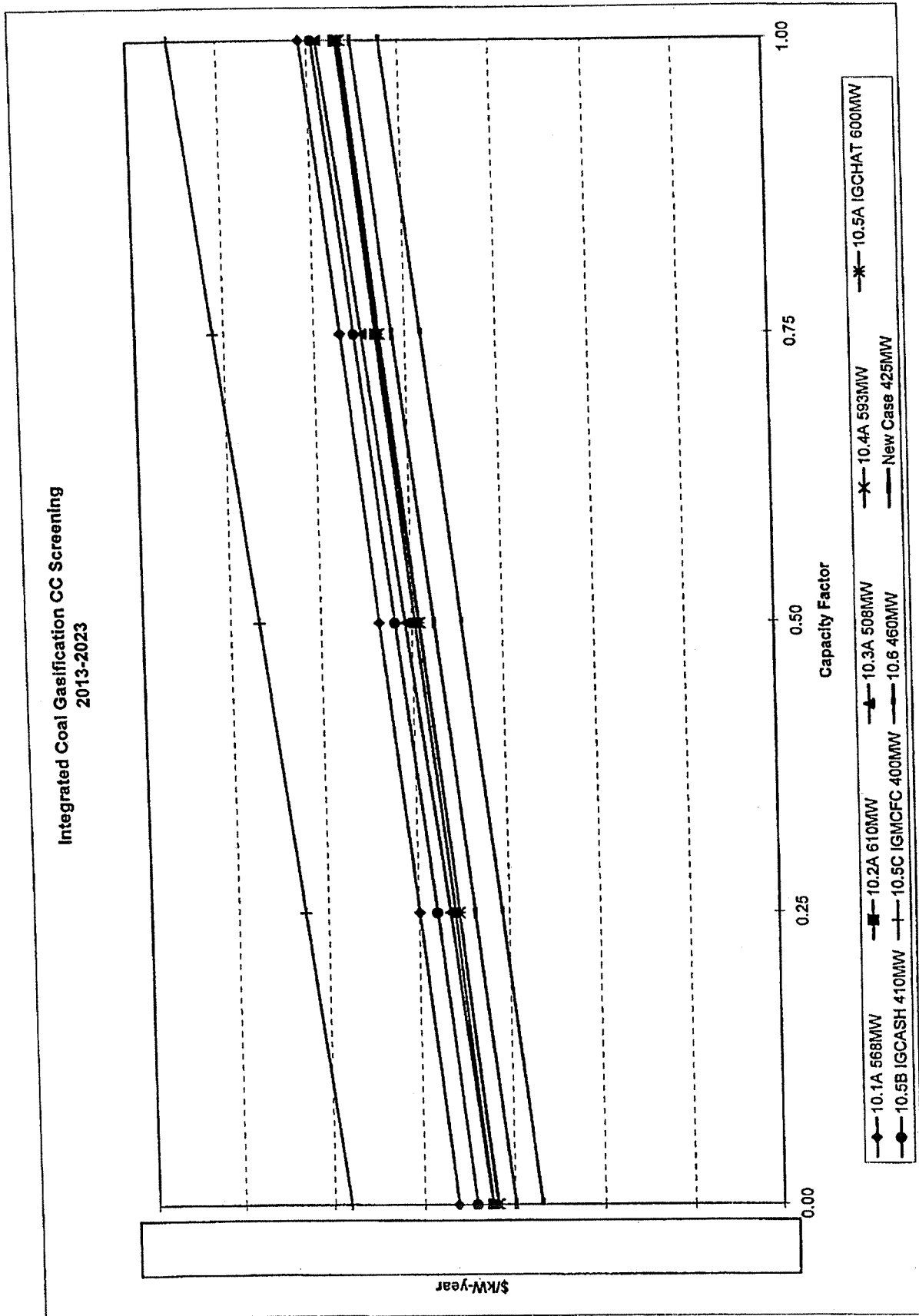
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Figure A-5-16



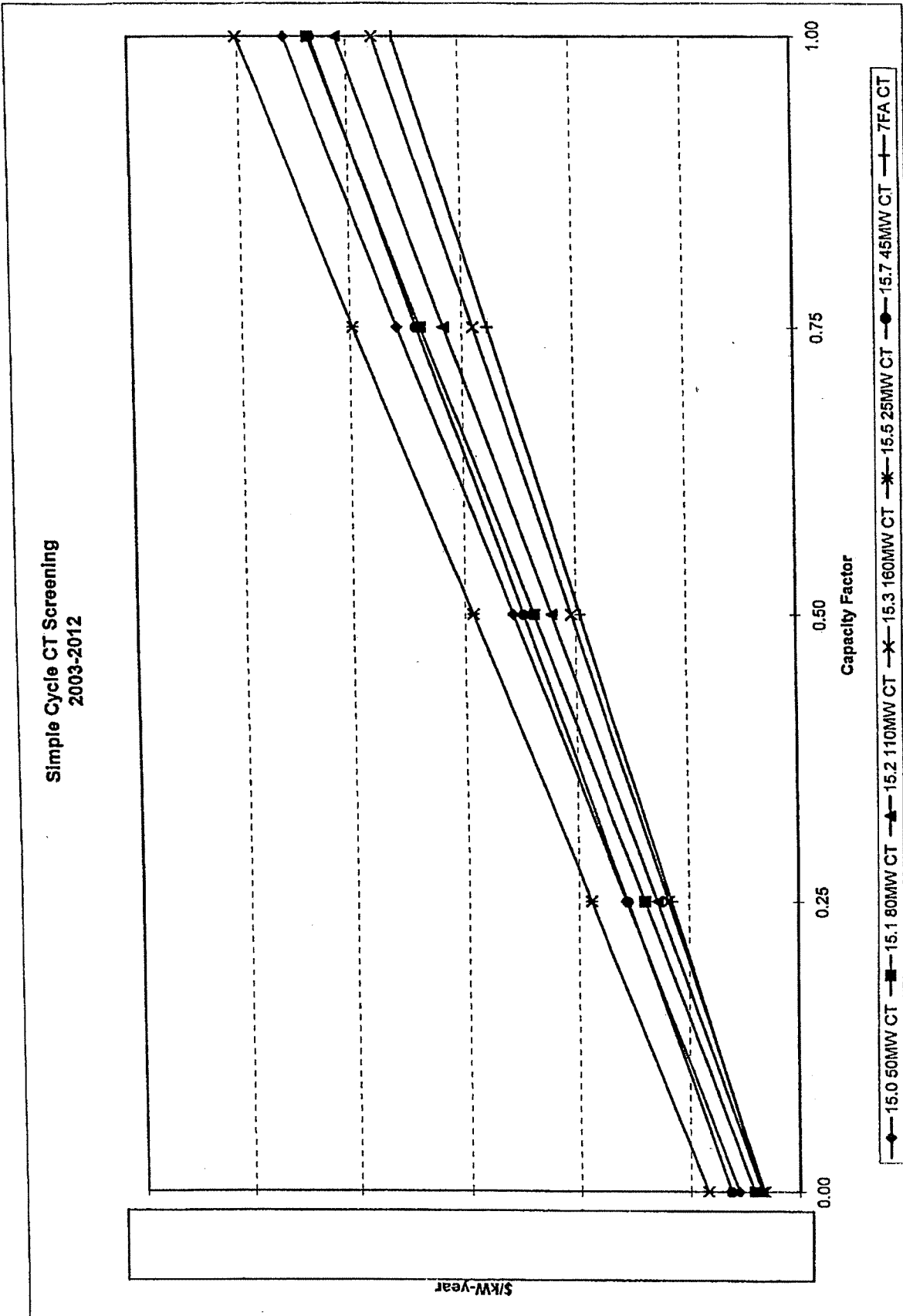
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Figure GA-5-17



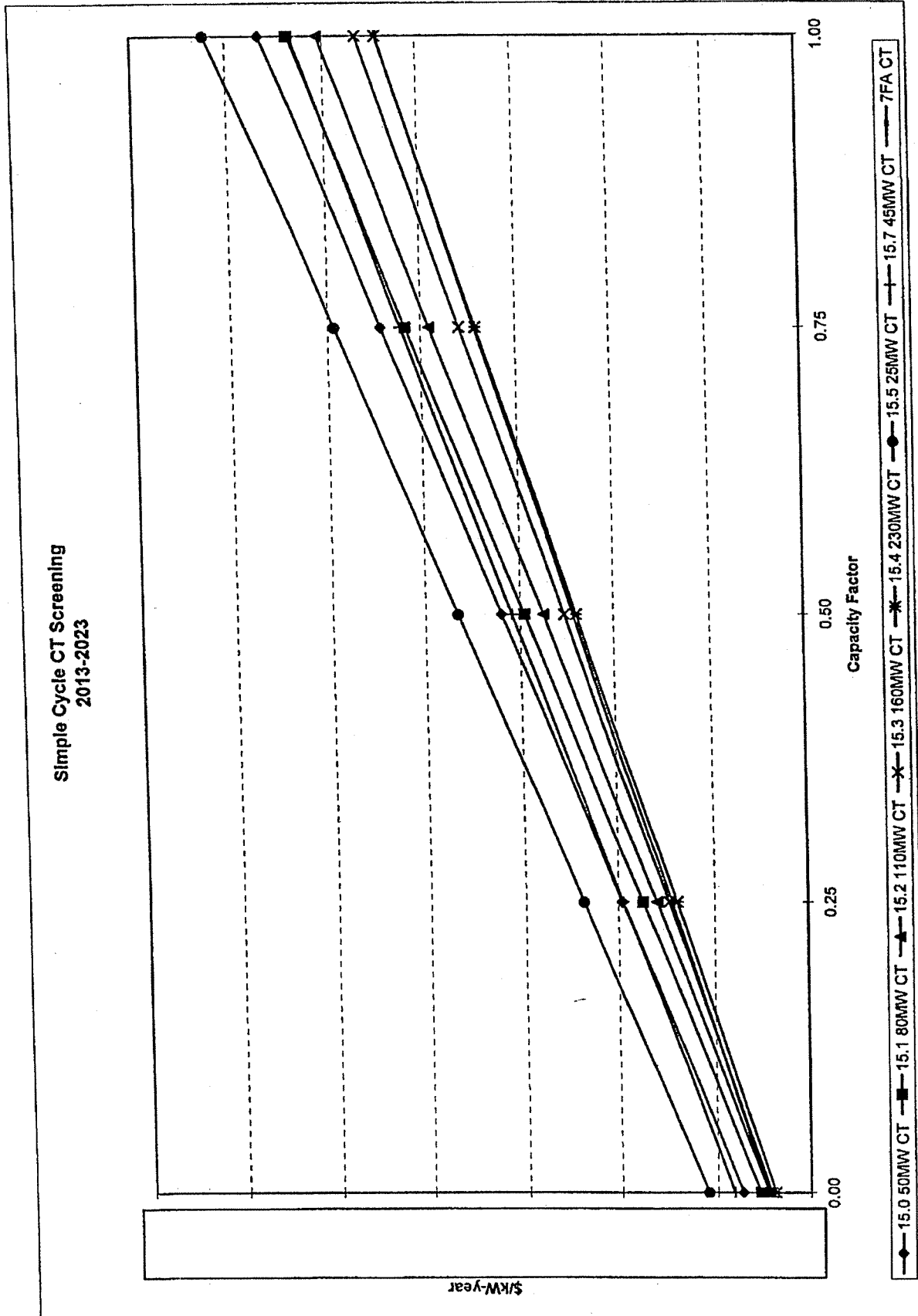
CONFIDENTIAL

Figure GA-5-18



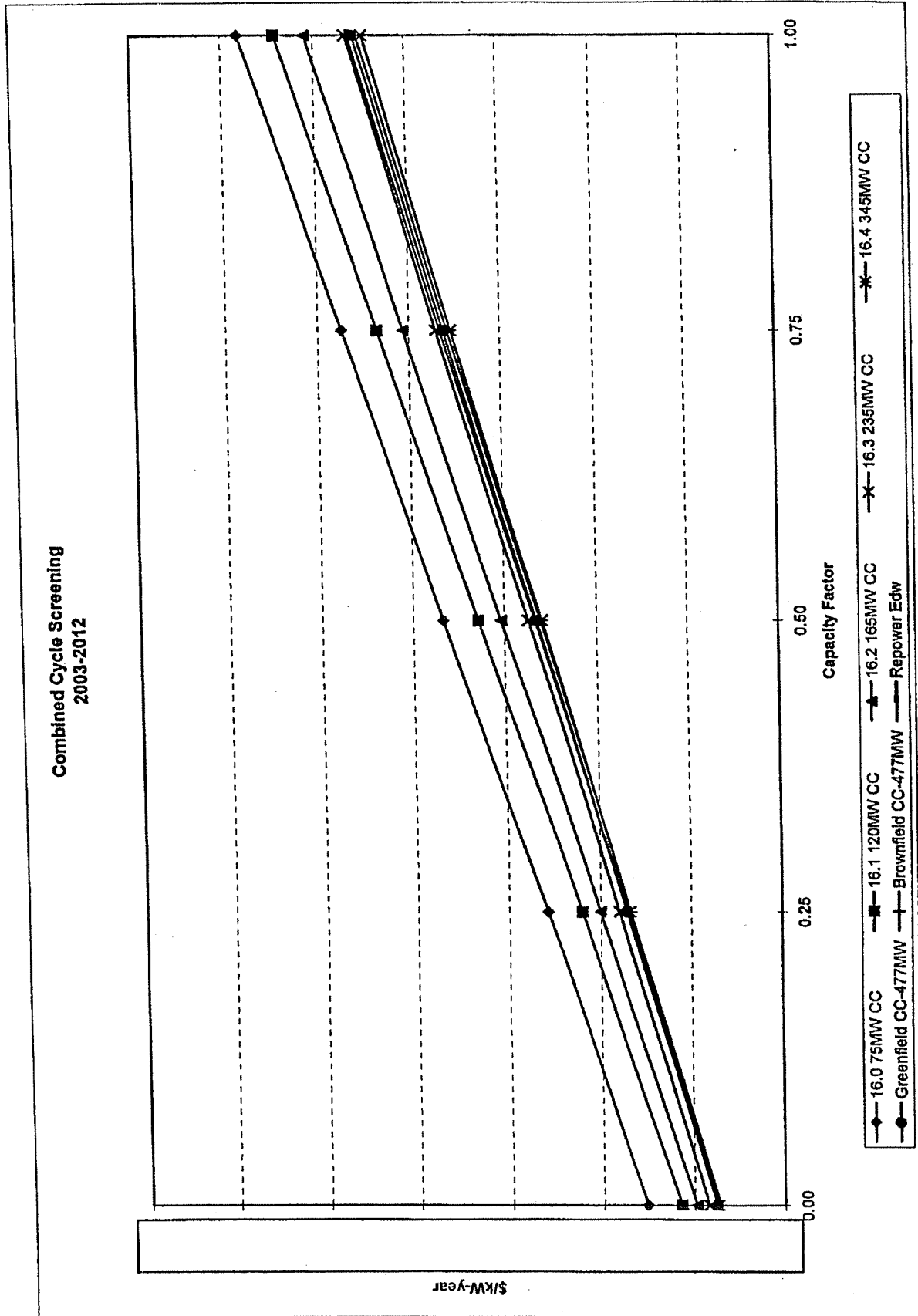
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Figure GA-5-19



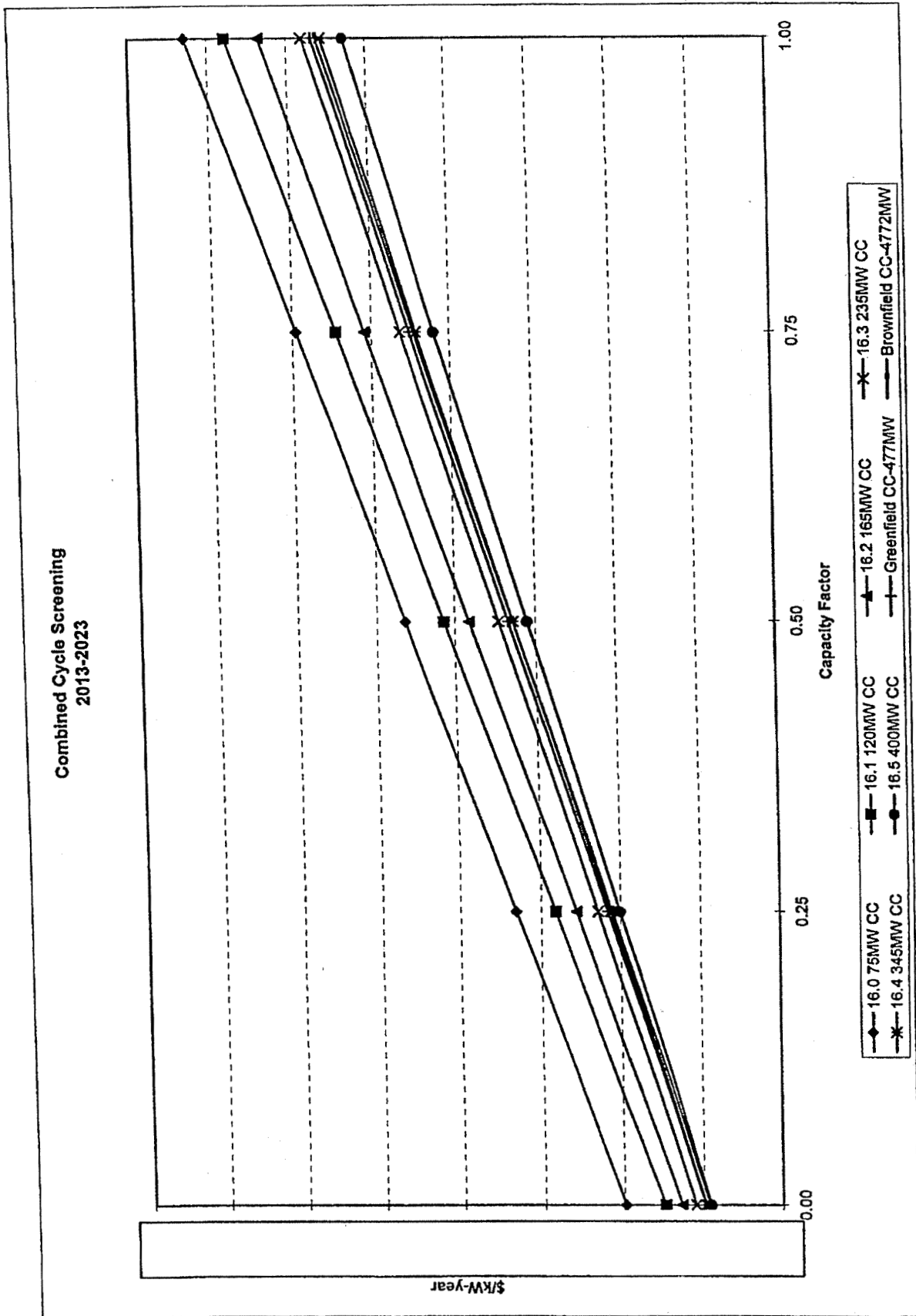
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Figure GA-5-20



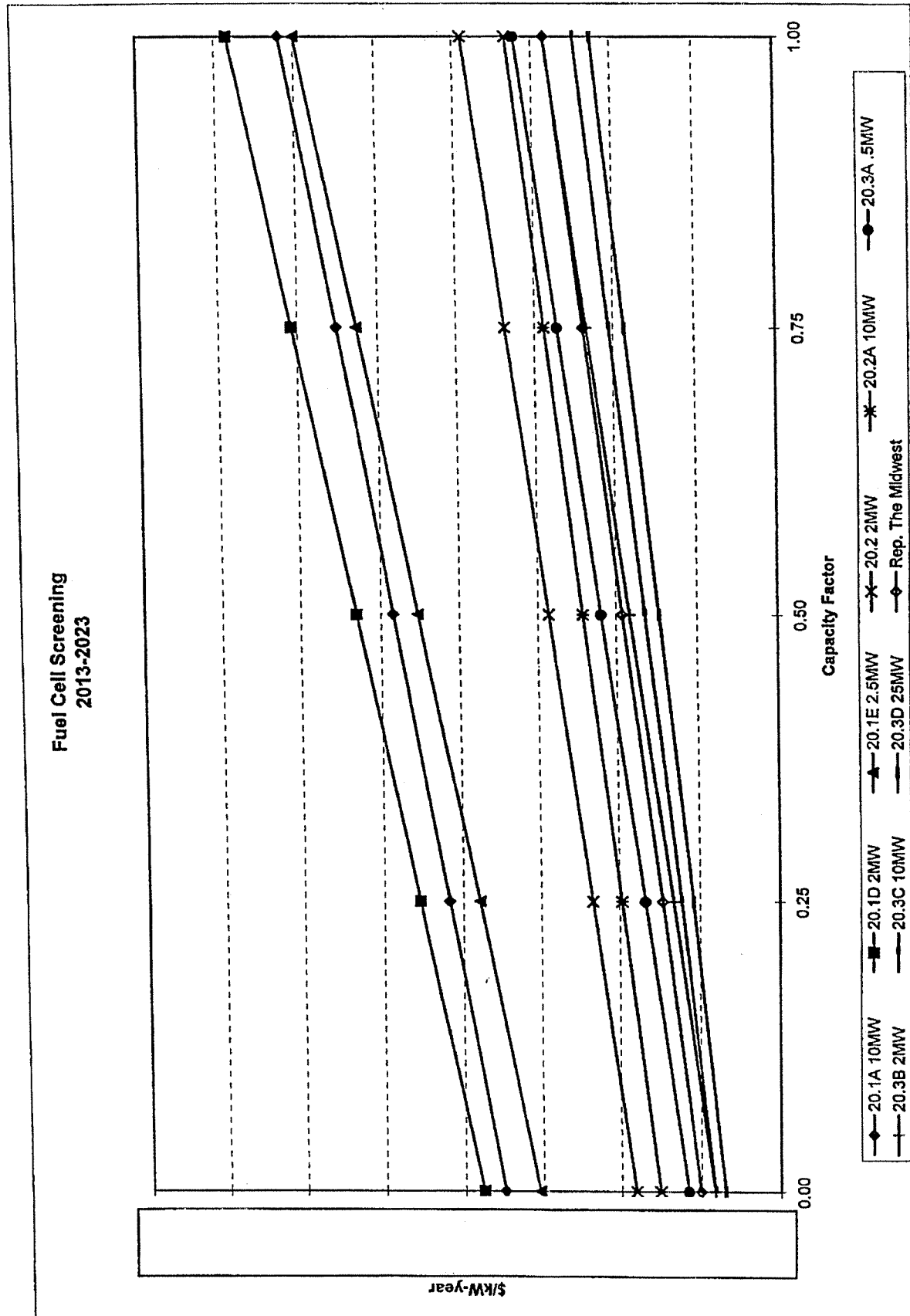
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Figure GA-5-21



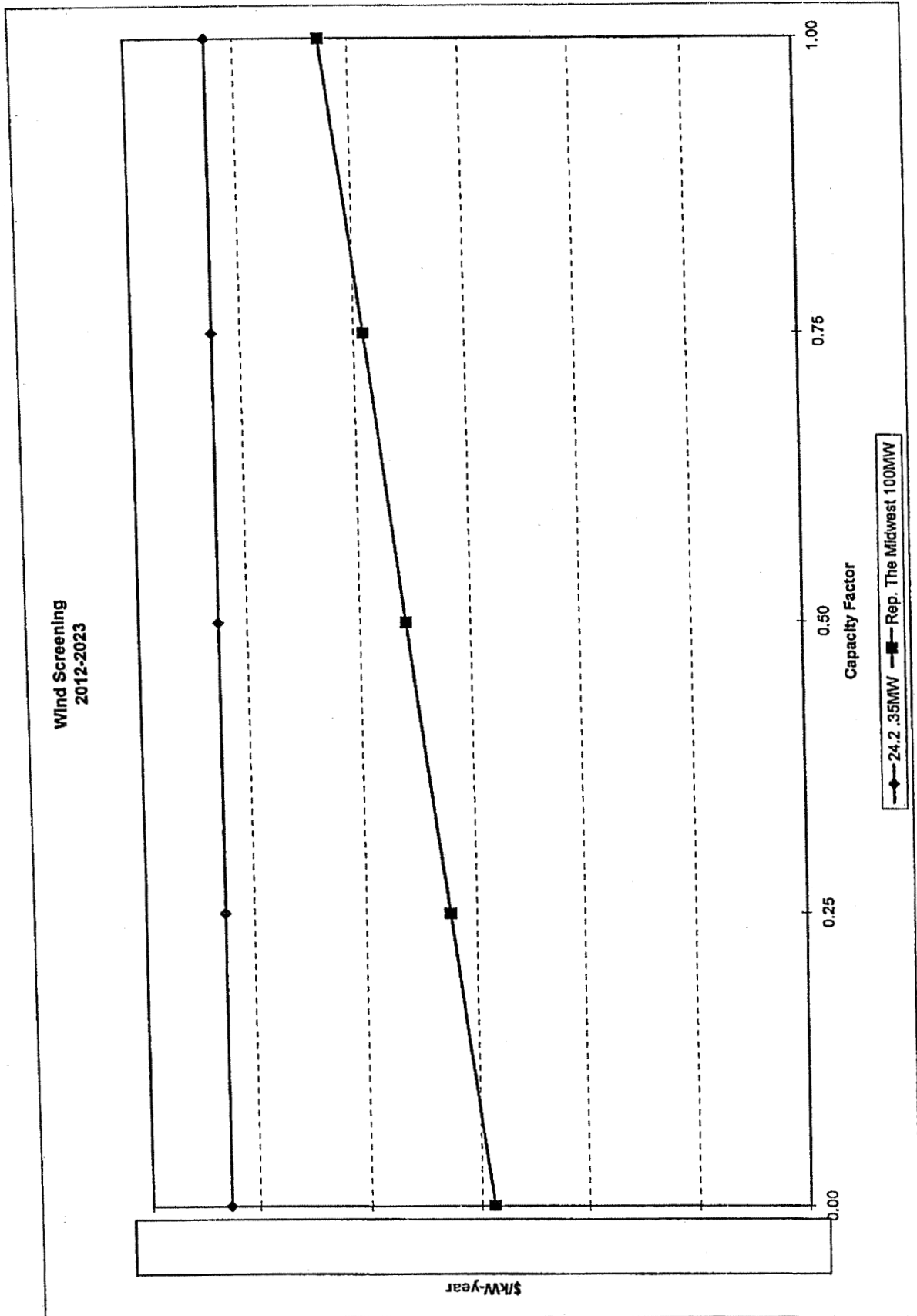
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Figure GA-5-22



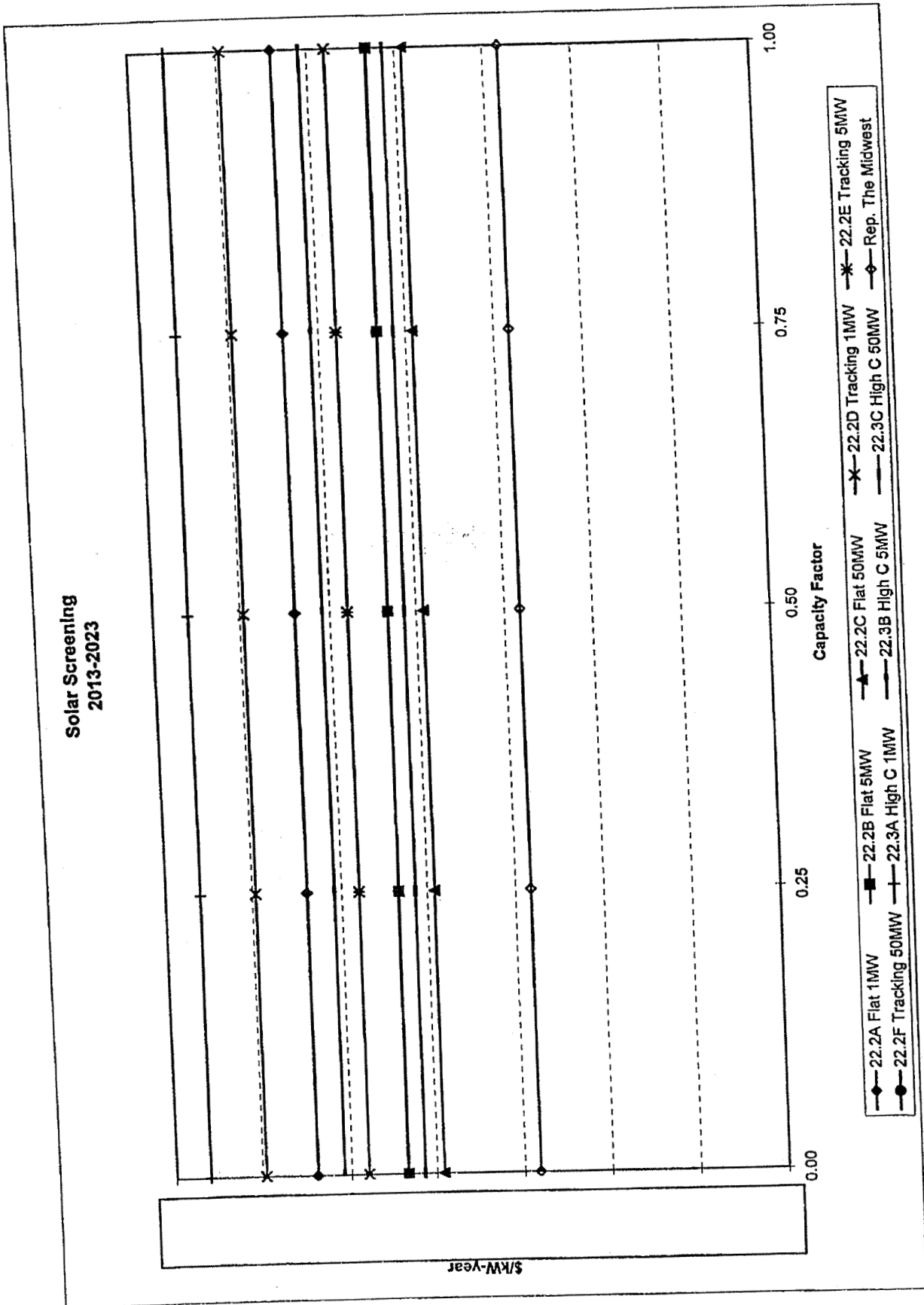
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Figure GA-5-23



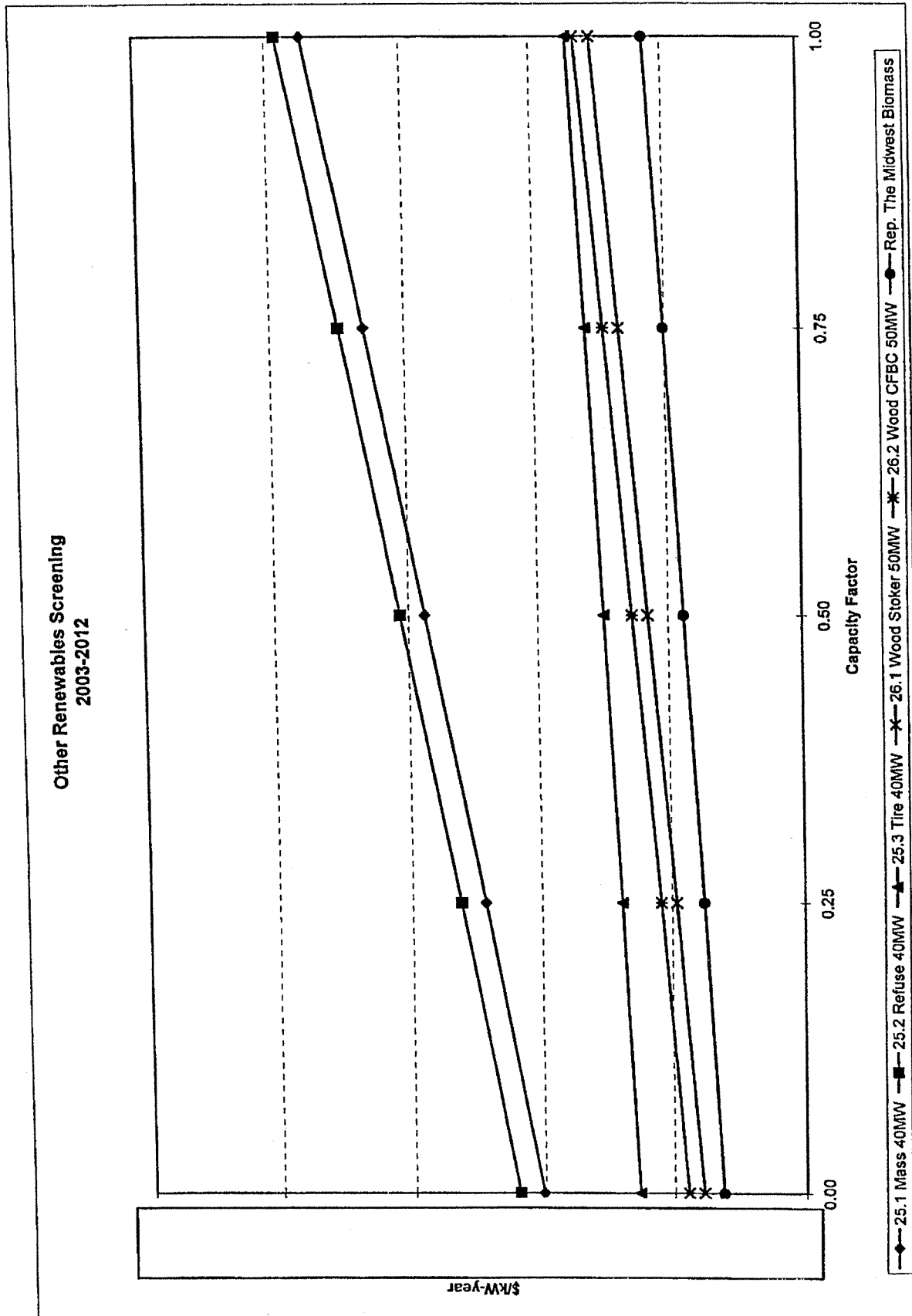
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Figure GA-5-24

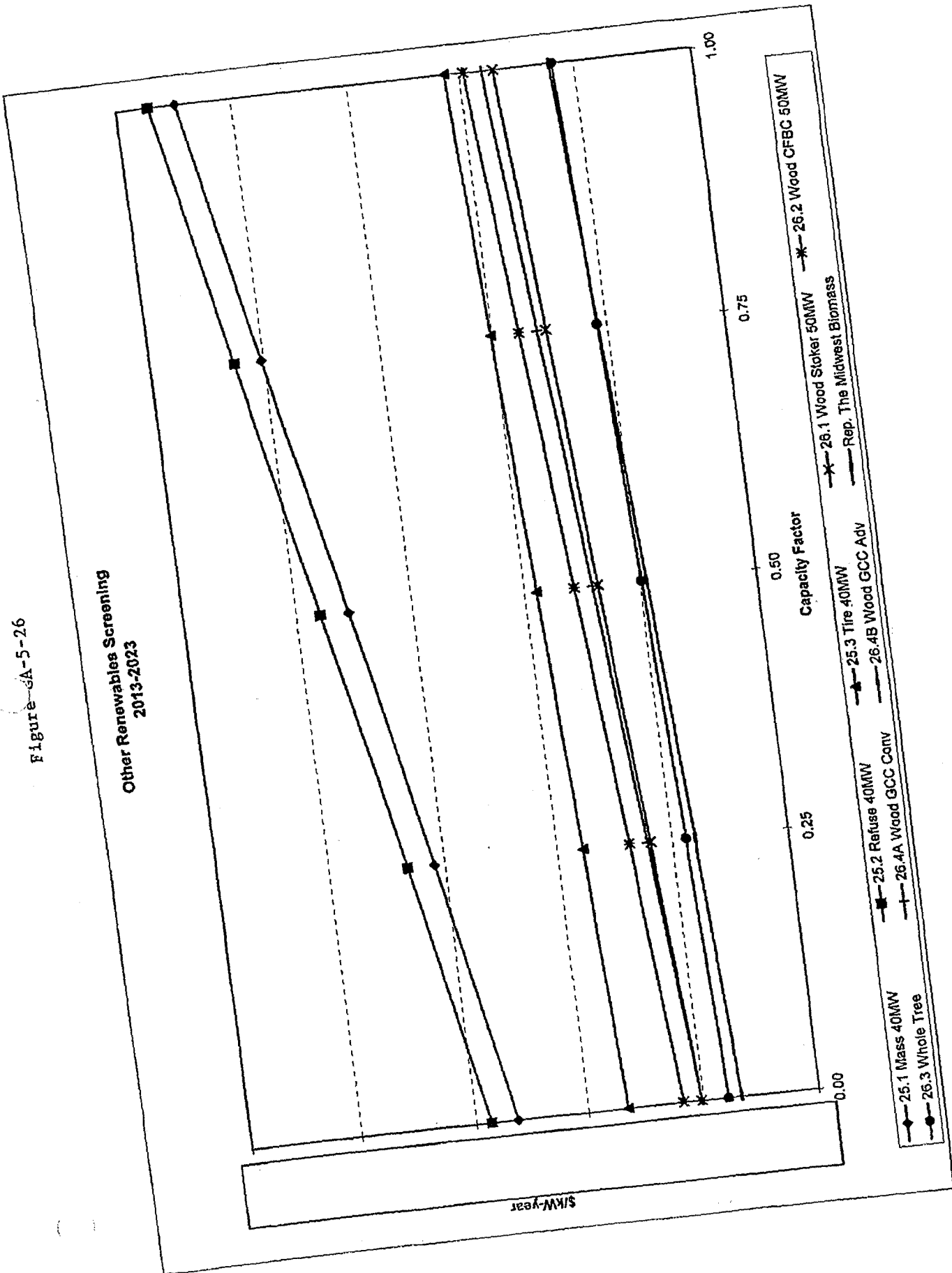


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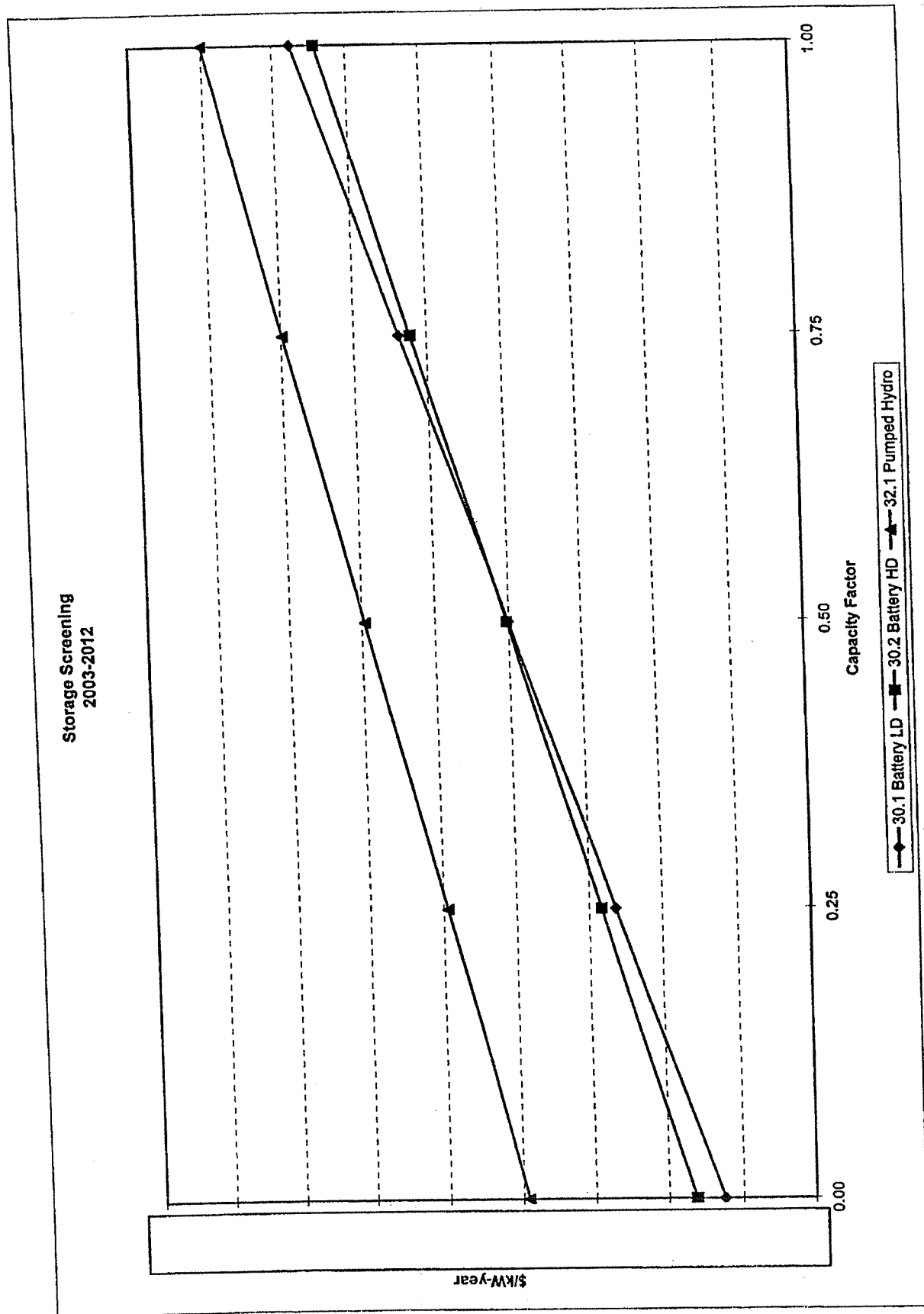


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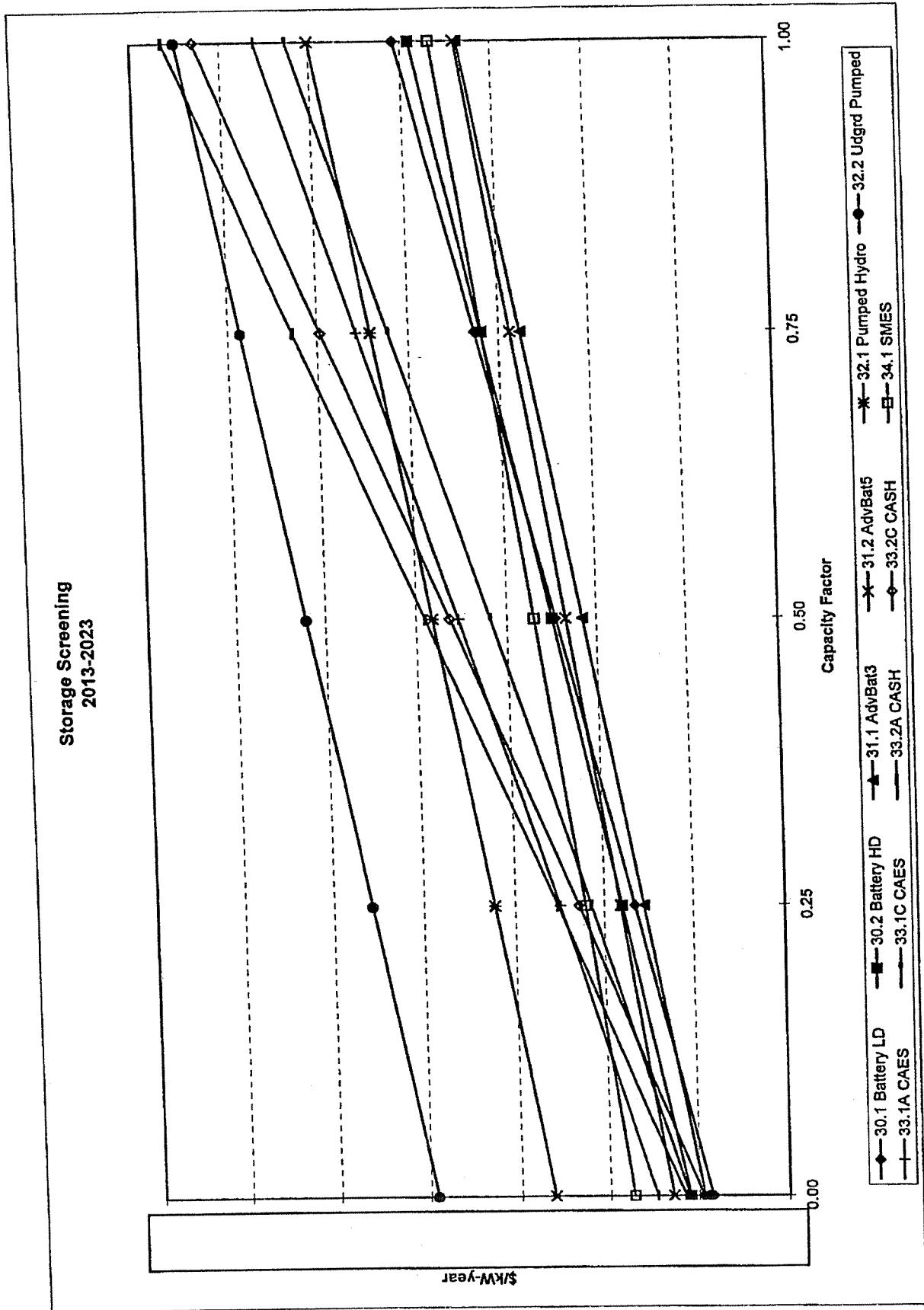
Figure GA-5-27



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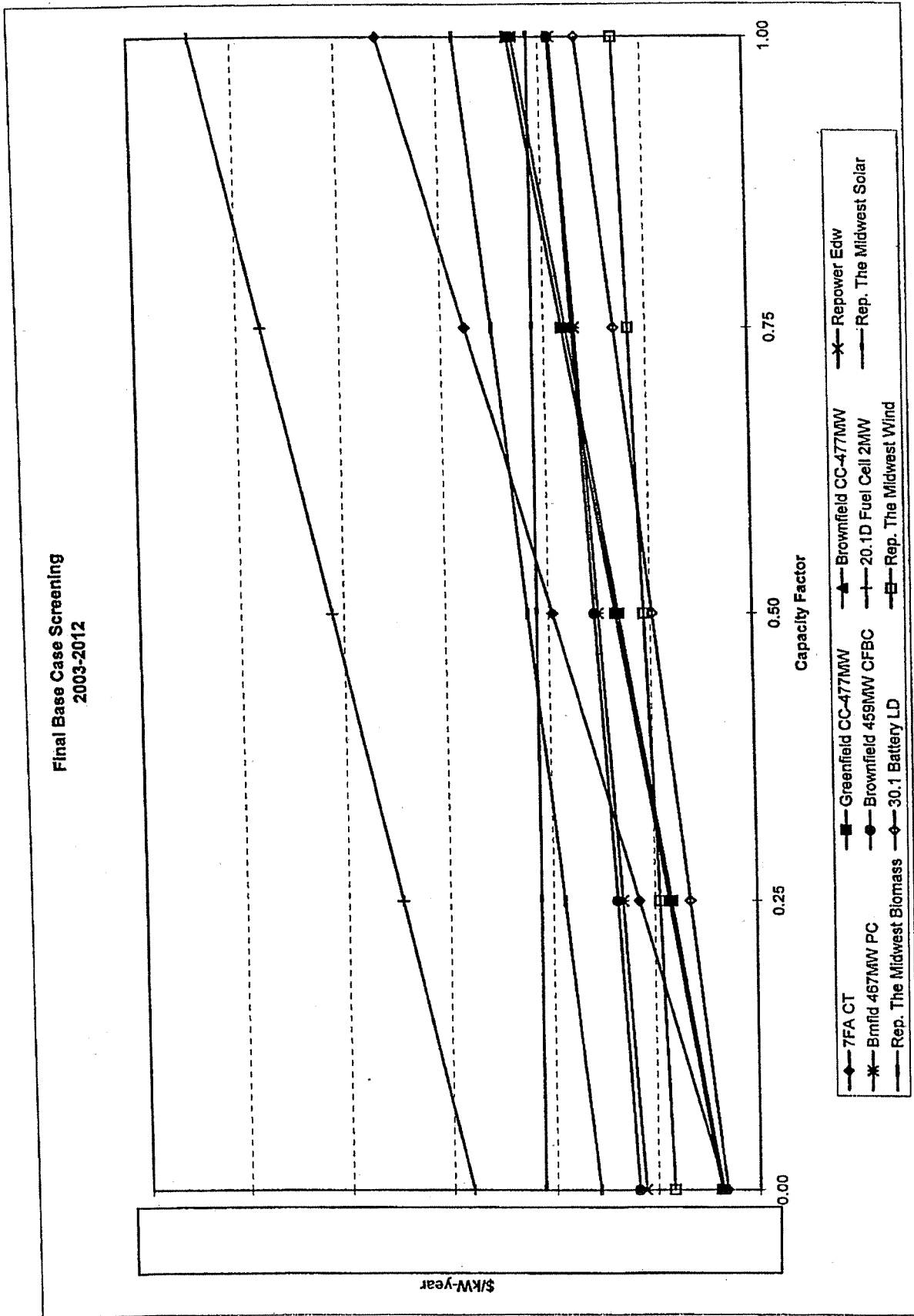
Figure A-5-28

Storage Screening
2013-2023



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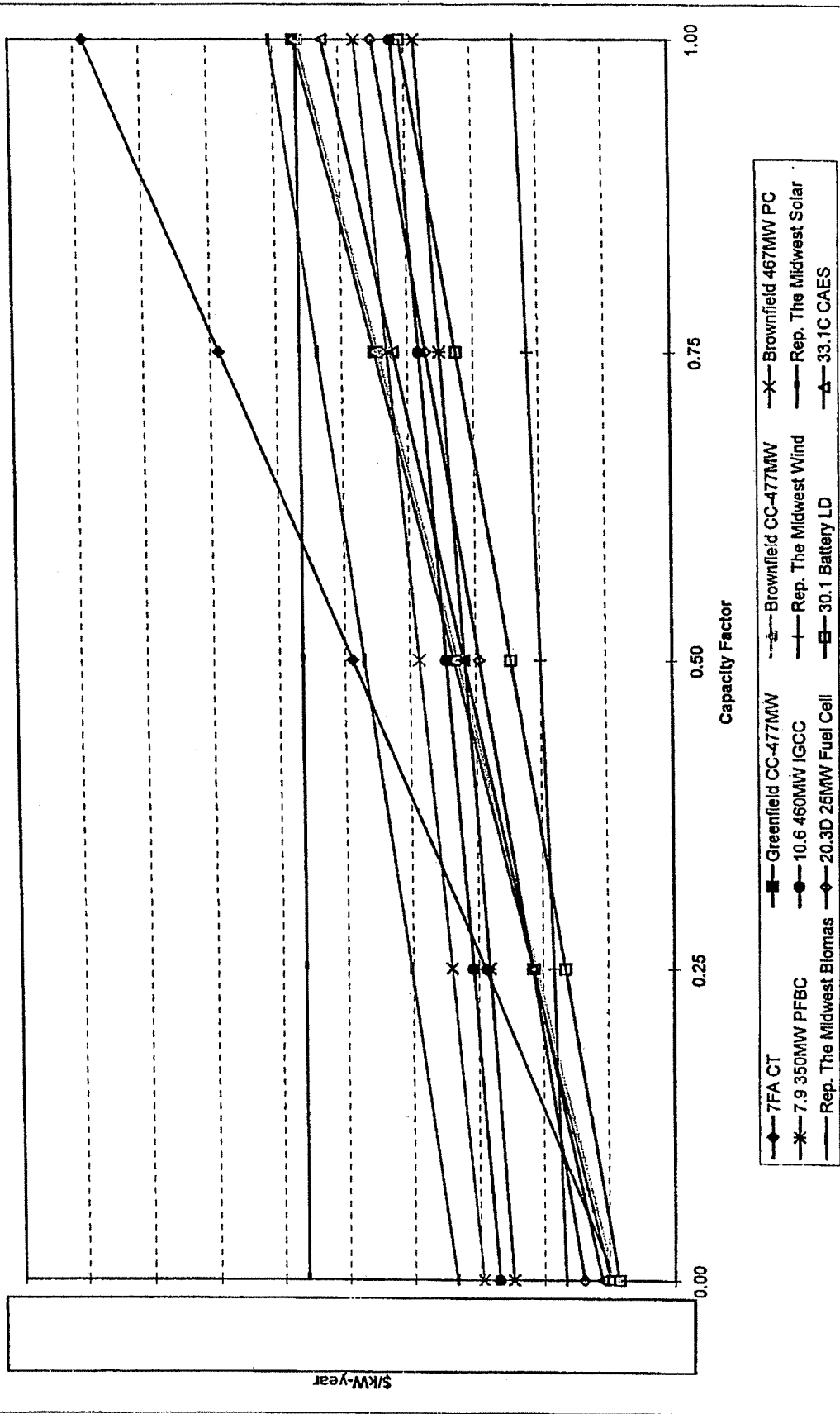
Figure GA-5-30



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Figure A-5-31

Final Base Case Screening
 2013-2023



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Figure GA-5-32

2003-2012
 6.04% Annual Allowance Exclusion

Final Base Case Screening
 SO2 Allowance (lb/yr):
 Discount Rate: 8.075%
 2003 Dollars
 GRAPH LEGEND:

Item	Value	Rate	Item	Value	Rate	Item	Value	Rate	Item	Value	Rate
SO2 Allowance (lb/yr)	477.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%
Discount Rate	8.075%		Discount Rate	8.075%		Discount Rate	8.075%		Discount Rate	8.075%	
2003 Dollars			2003 Dollars			2003 Dollars			2003 Dollars		
GRAPH LEGEND			GRAPH LEGEND			GRAPH LEGEND			GRAPH LEGEND		
SO2 Allowance (lb/yr)	477.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%	SO2 Allowance (lb/yr)	455.0	12.13%
Discount Rate	8.075%		Discount Rate	8.075%		Discount Rate	8.075%		Discount Rate	8.075%	
2003 Dollars			2003 Dollars			2003 Dollars			2003 Dollars		
GRAPH LEGEND			GRAPH LEGEND			GRAPH LEGEND			GRAPH LEGEND		

SO2 Allowance (lb/yr) 477.0 12.13% 455.0 12.13% 455.0 12.13%
 Discount Rate 8.075%
 2003 Dollars
 GRAPH LEGEND

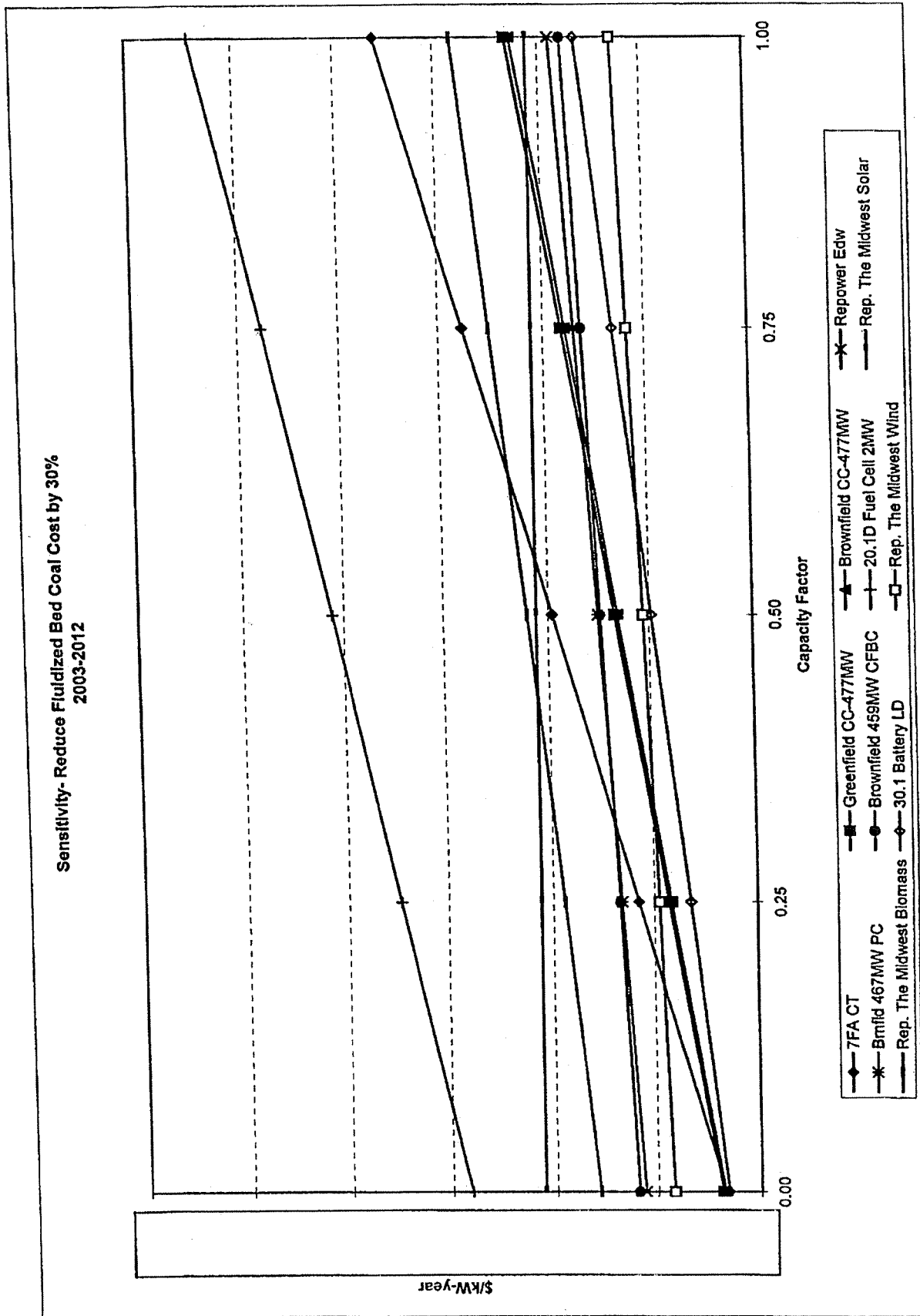
SO2 Allowance (lb/yr) 477.0 12.13% 455.0 12.13% 455.0 12.13%
 Discount Rate 8.075%
 2003 Dollars
 GRAPH LEGEND

SO2 Allowance (lb/yr) 477.0 12.13% 455.0 12.13% 455.0 12.13%
 Discount Rate 8.075%
 2003 Dollars
 GRAPH LEGEND

SO2 Allowance (lb/yr) 477.0 12.13% 455.0 12.13% 455.0 12.13%
 Discount Rate 8.075%
 2003 Dollars
 GRAPH LEGEND

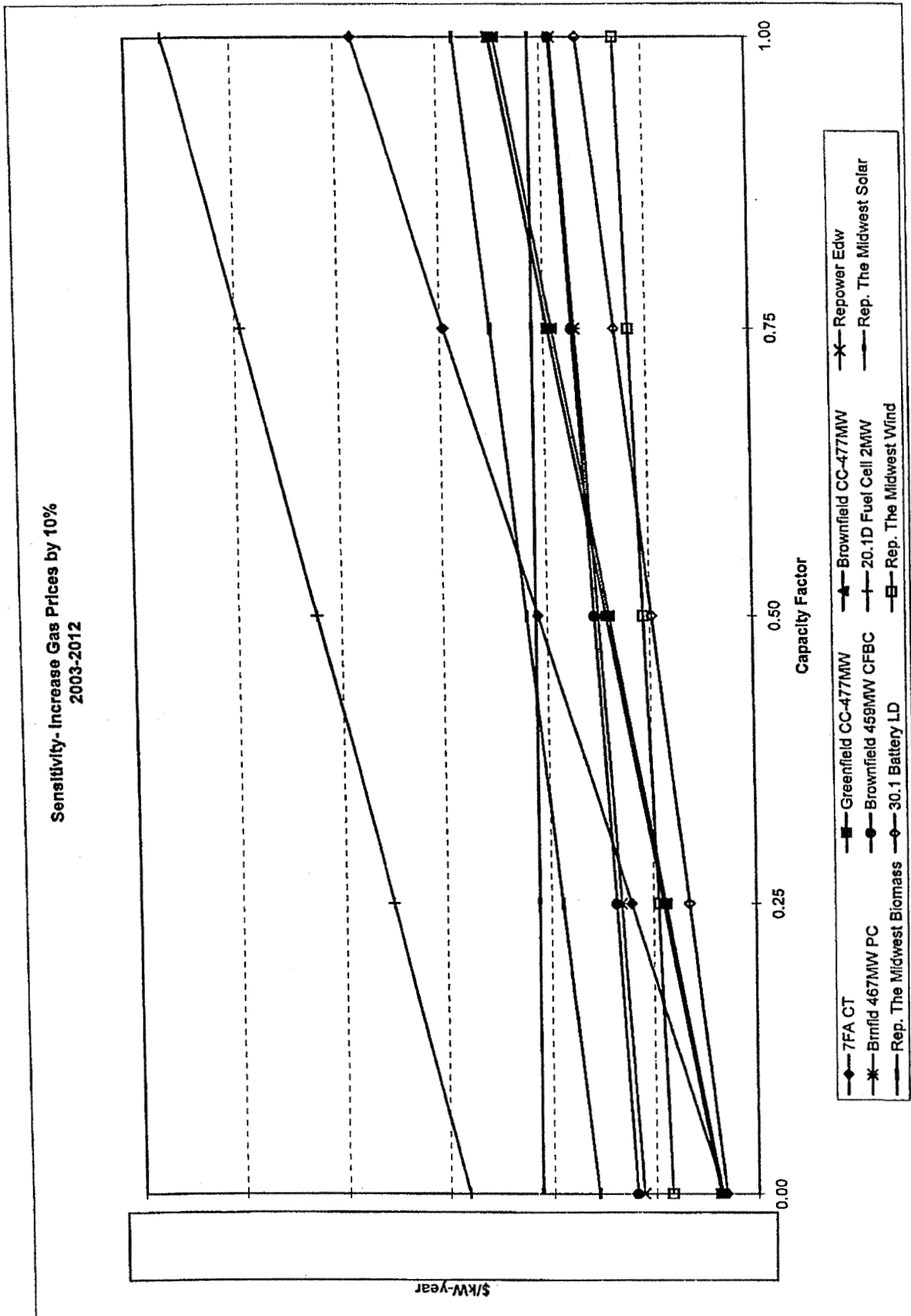
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Figure GA-5-34



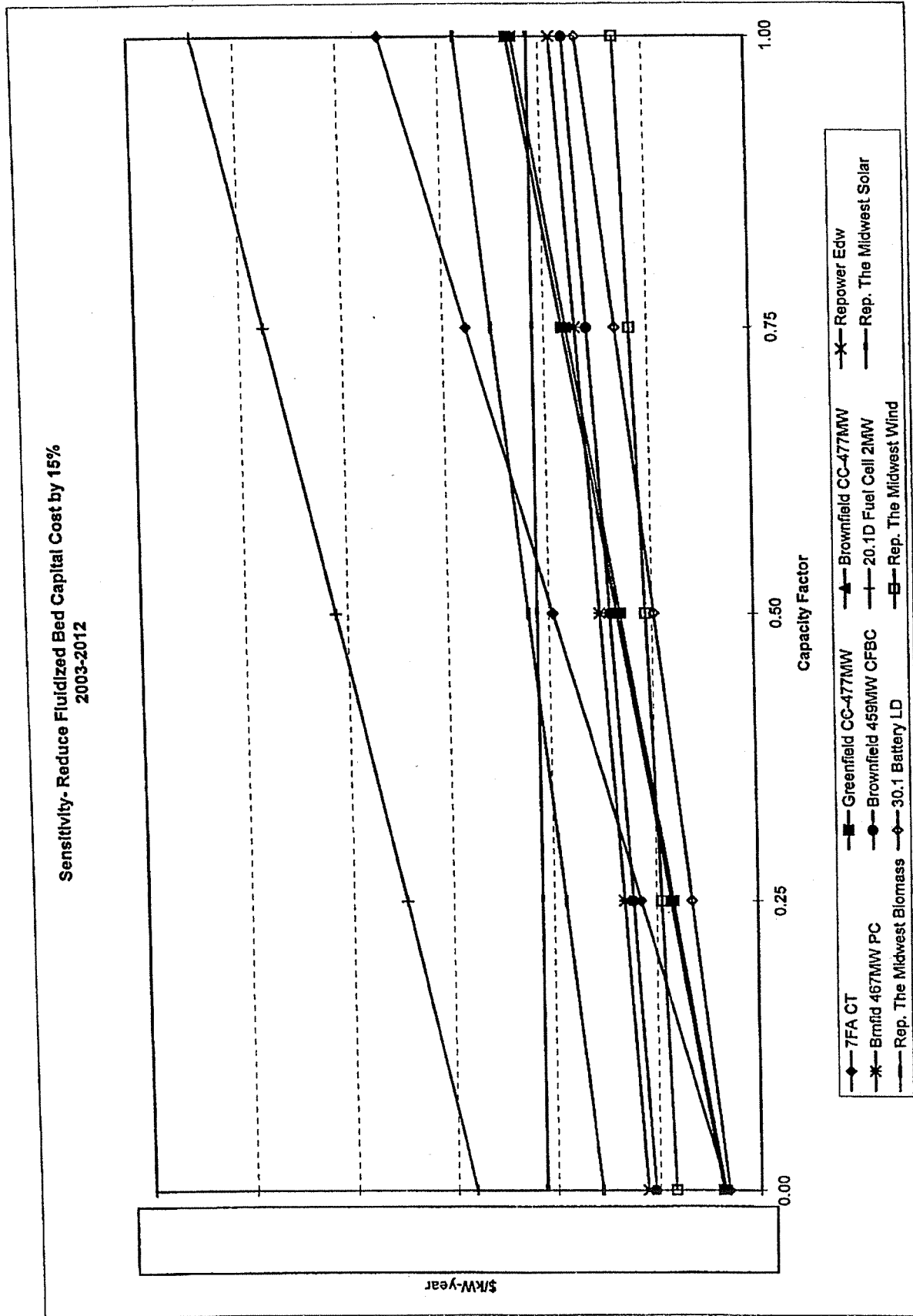
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Figure GA-5-35



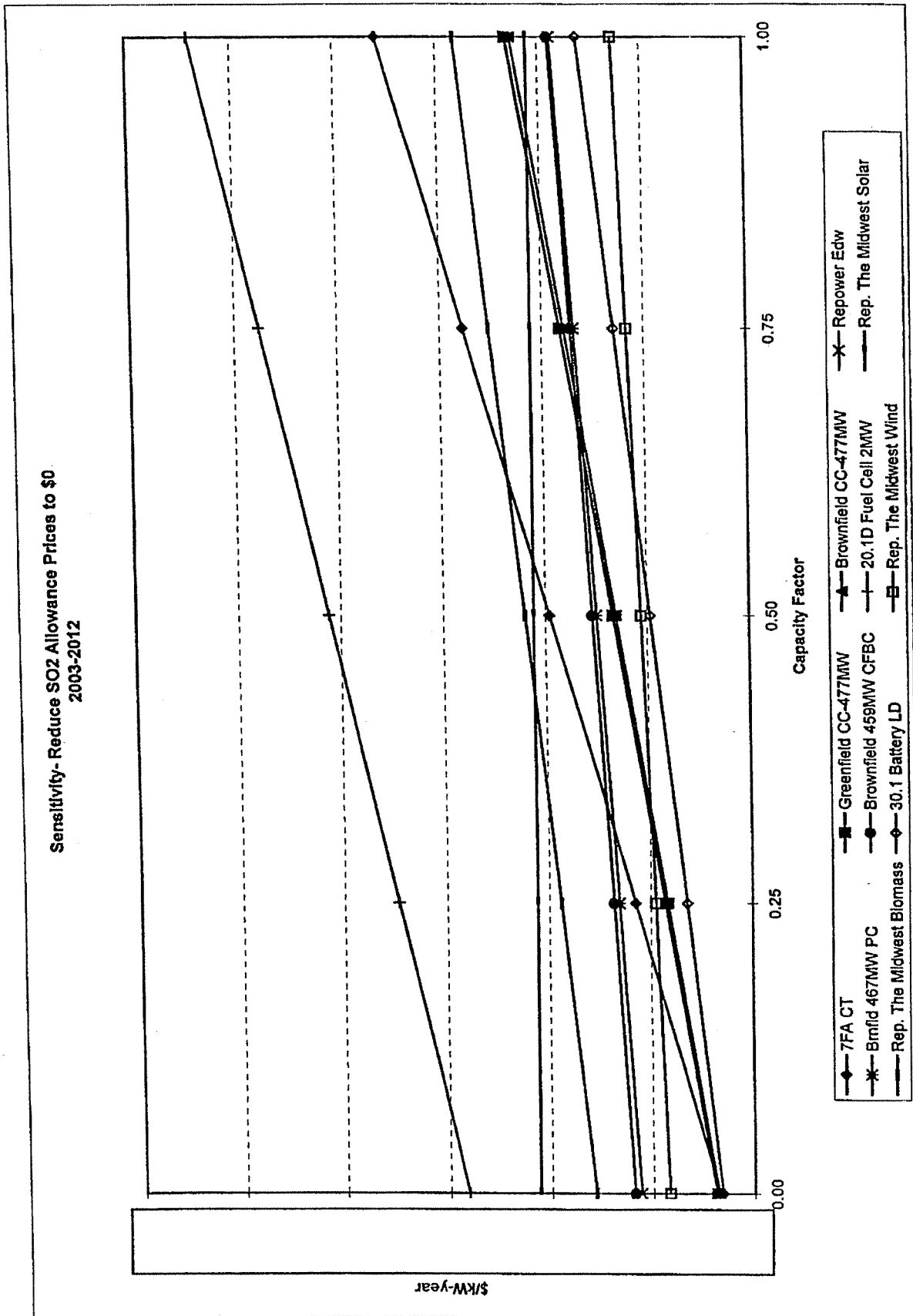
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Figure GA-5-36

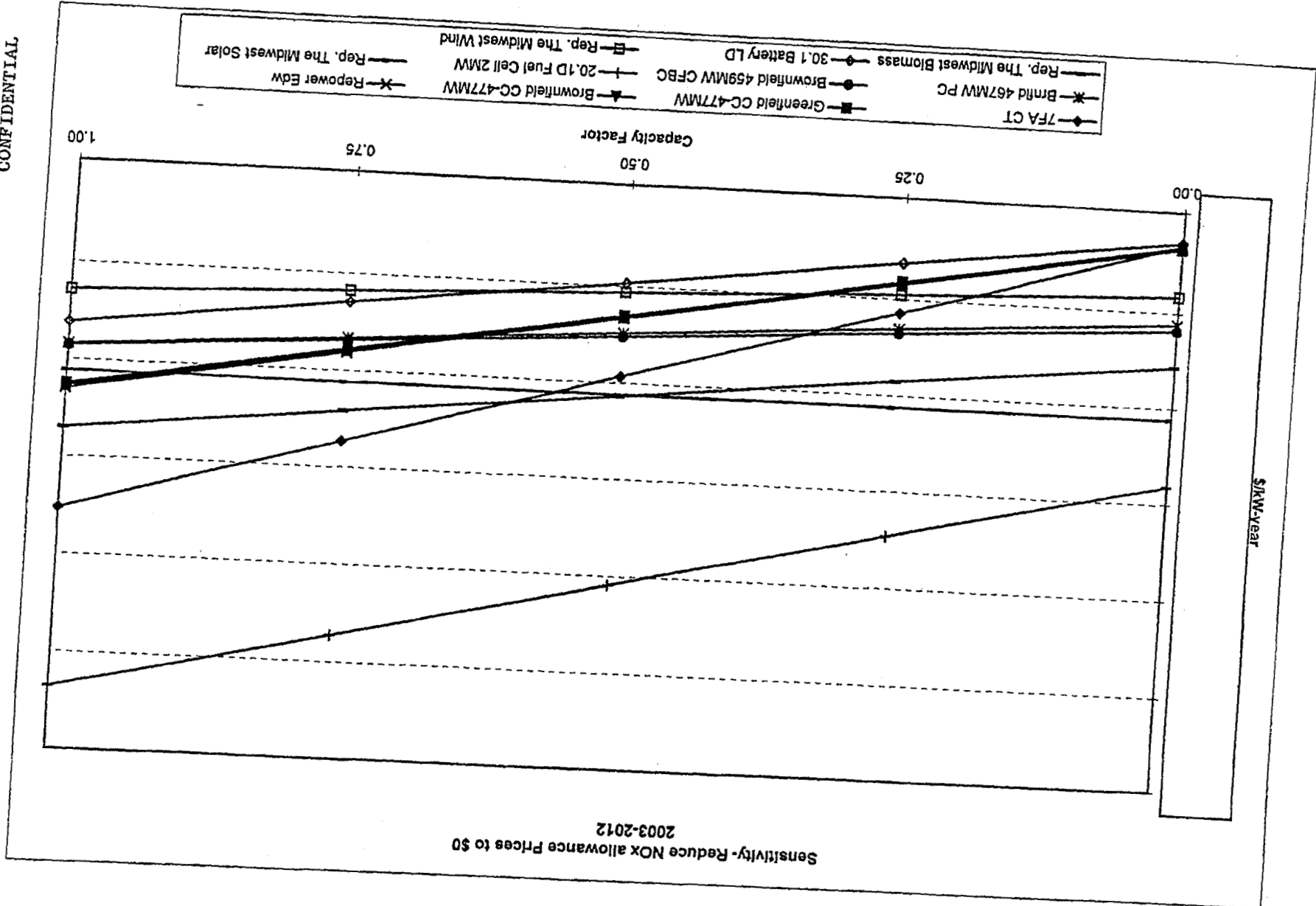


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Figure CA-5-37



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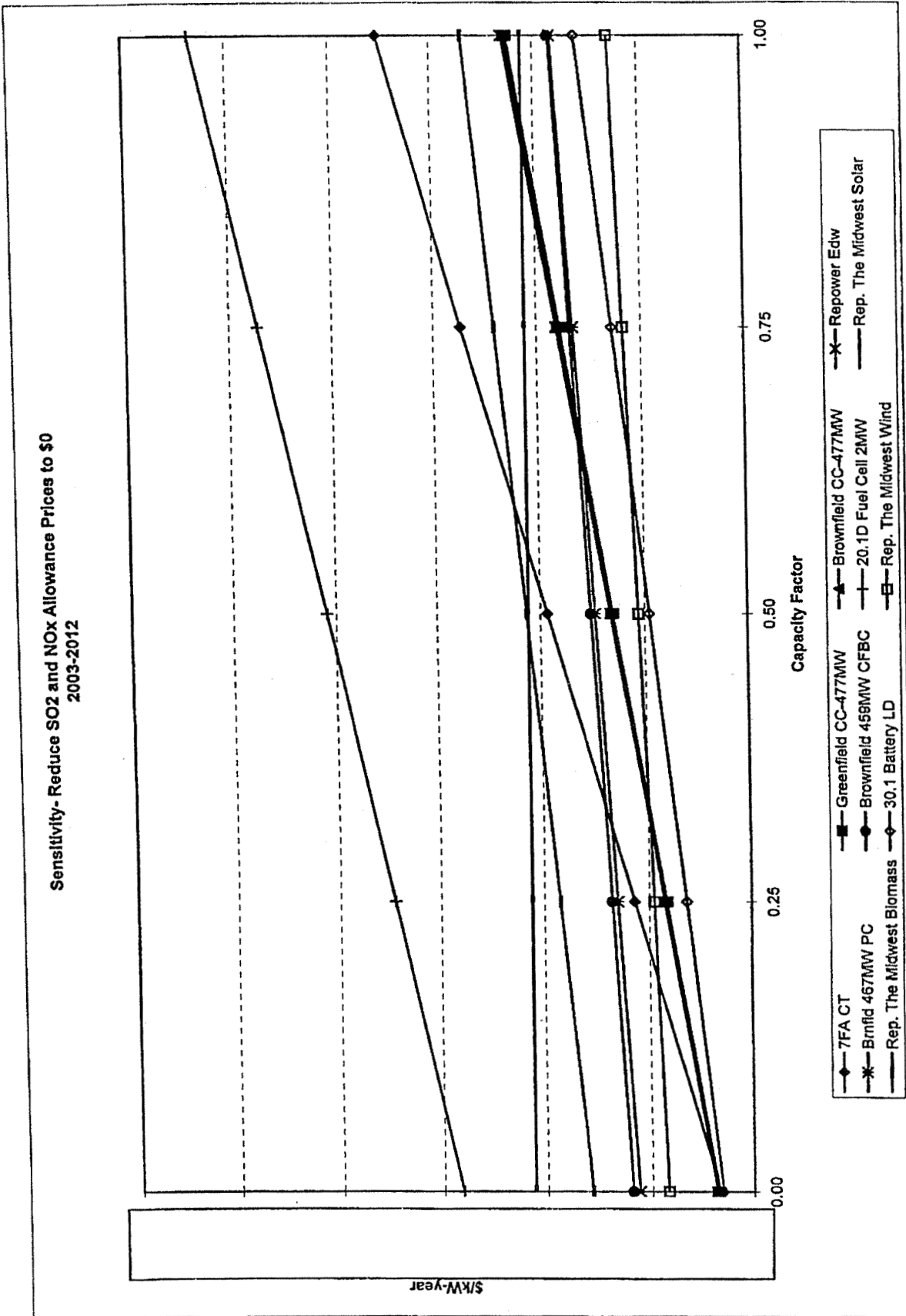


Sensitivity-Reduce NOx allowance Prices to \$0
 2003-2012

Figure GA-5-38

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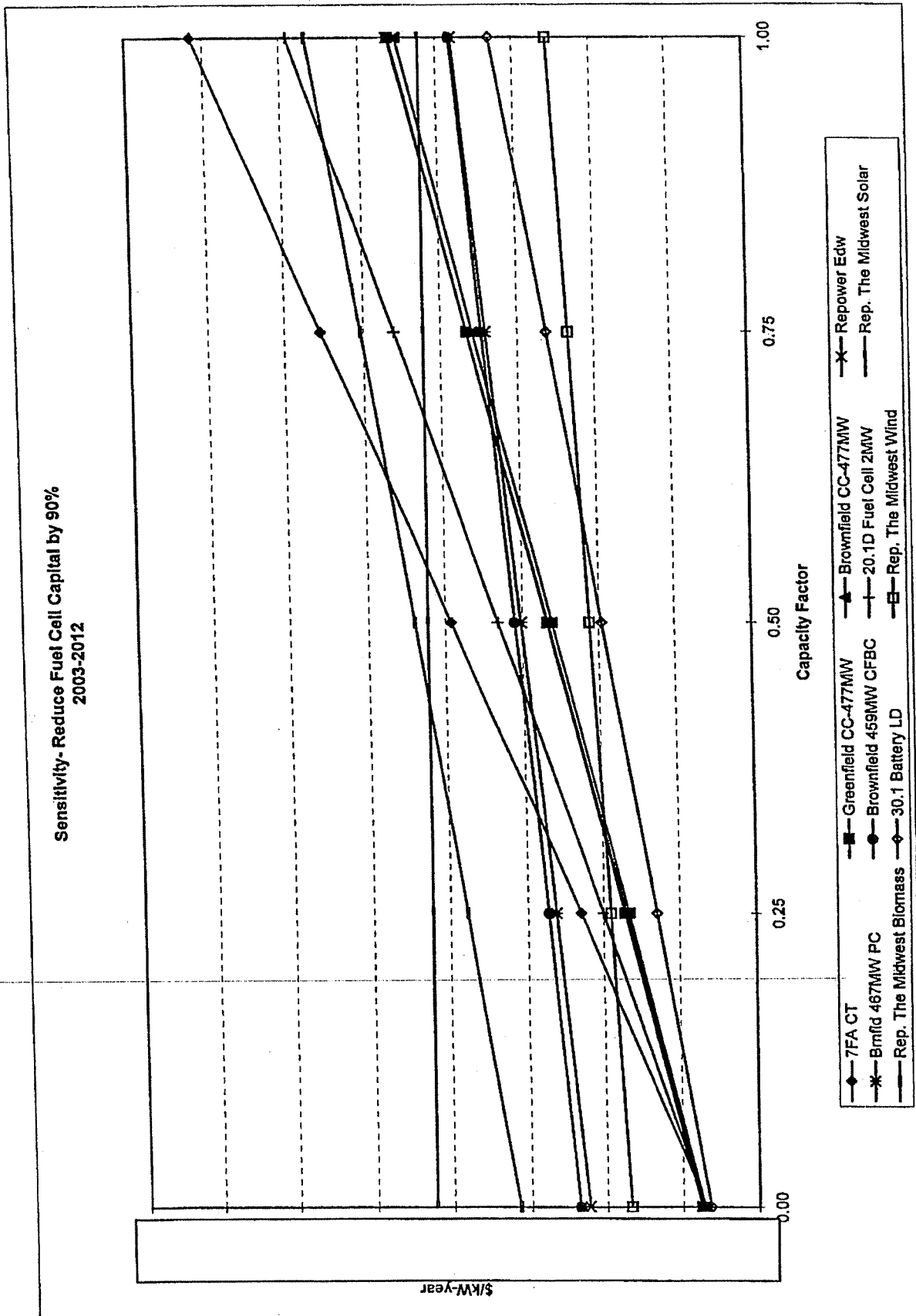
Figure GA-5-39



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Figure GA-5-40

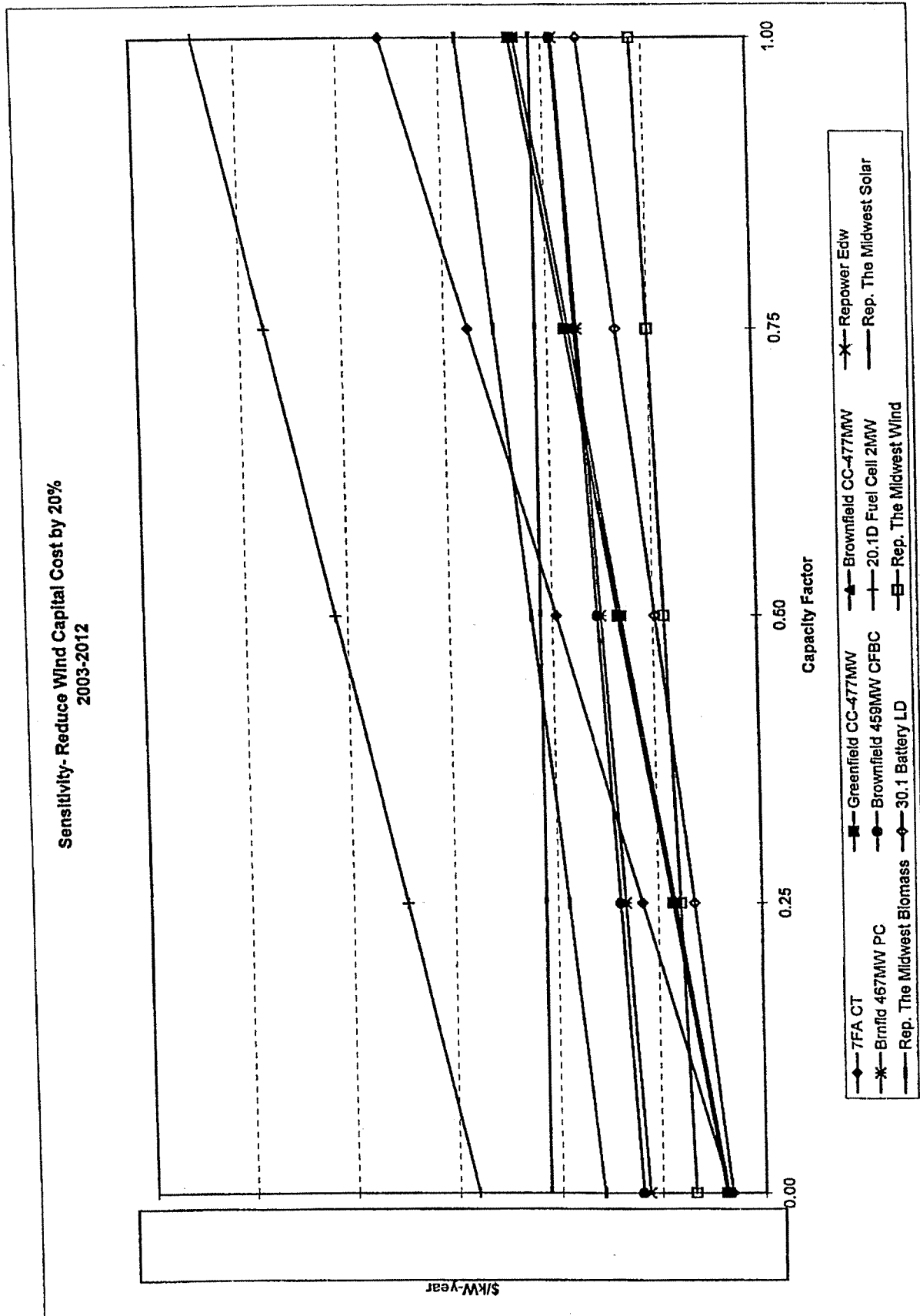
Sensitivity- Reduce Fuel Cell Capital by 90%
 2003-2012



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Figure A-5-41

Sensitivity- Reduce Wind Capital Cost by 20%
 2003-2012



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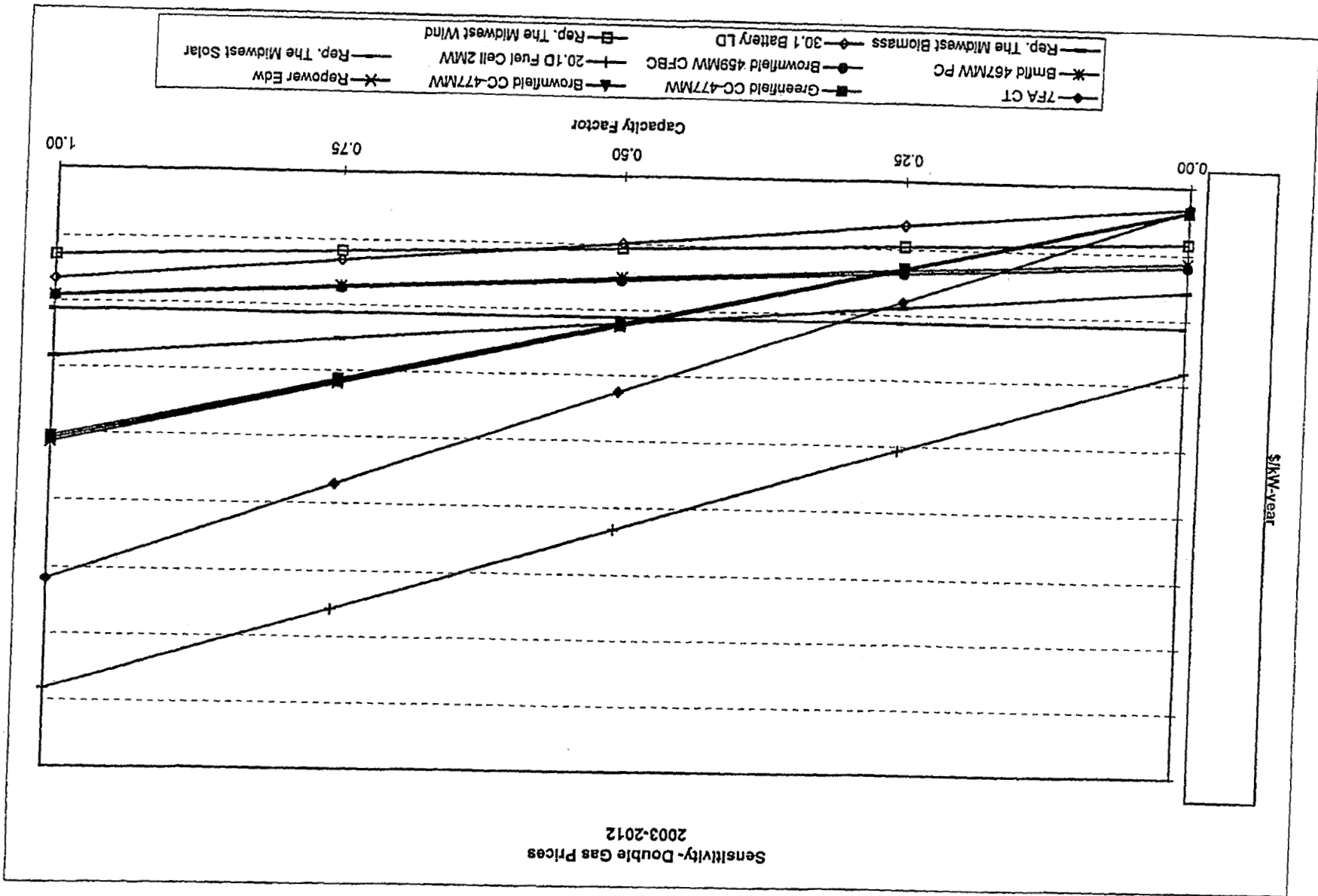
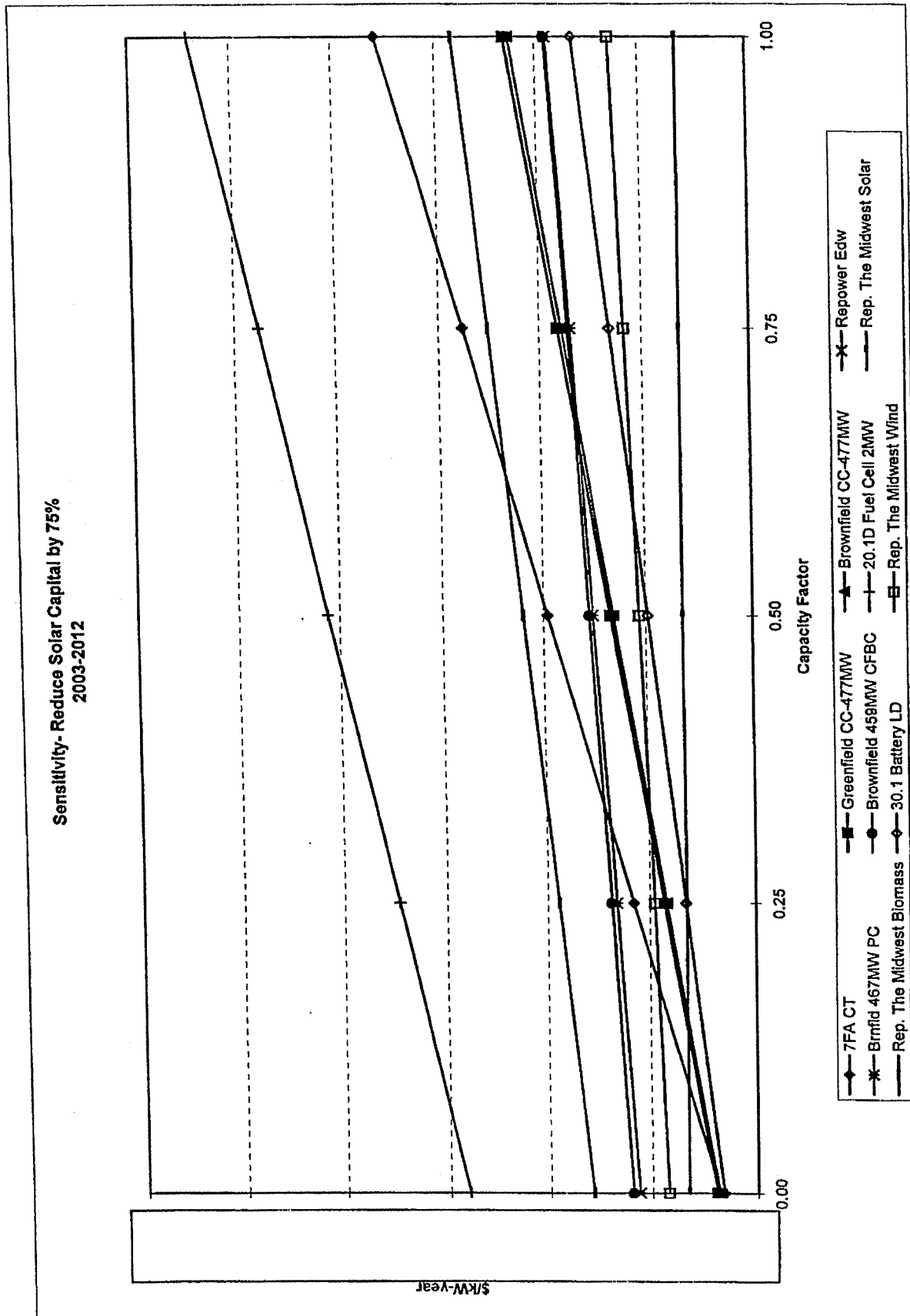


Figure GA-5-42

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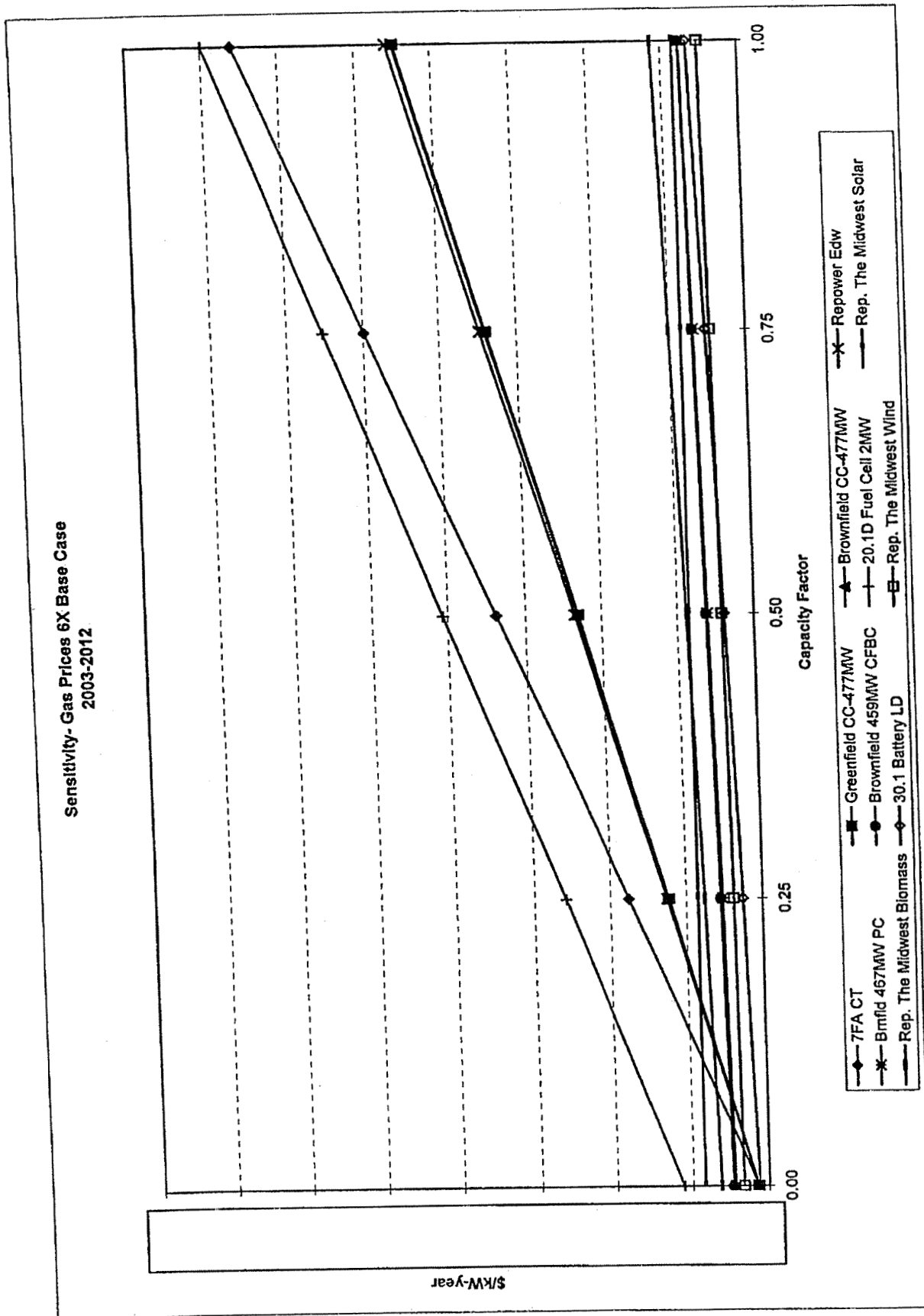
Figure GA-5-43

Sensitivity- Reduce Solar Capital by 75%
 2003-2012



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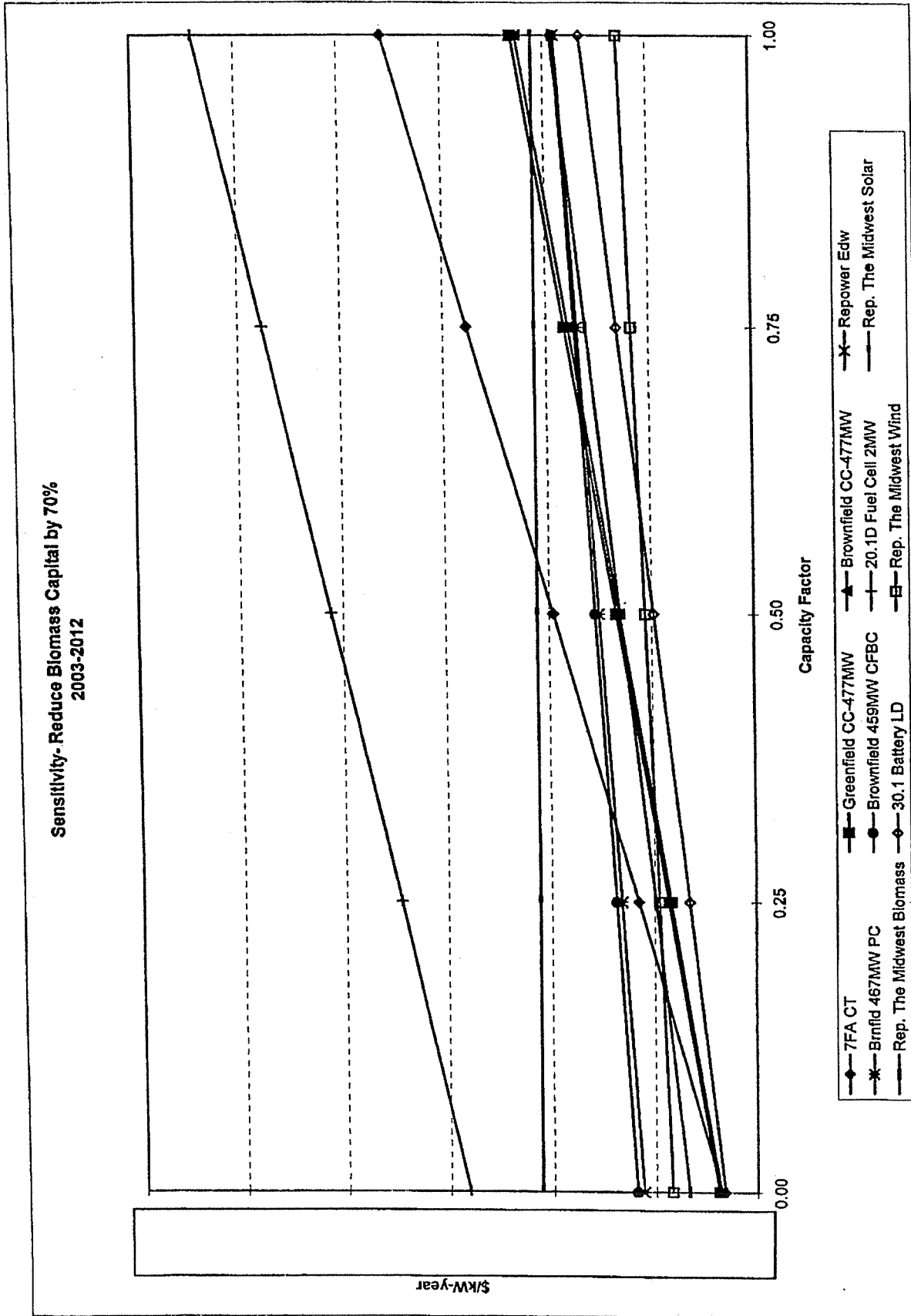
Figure GA-5-44



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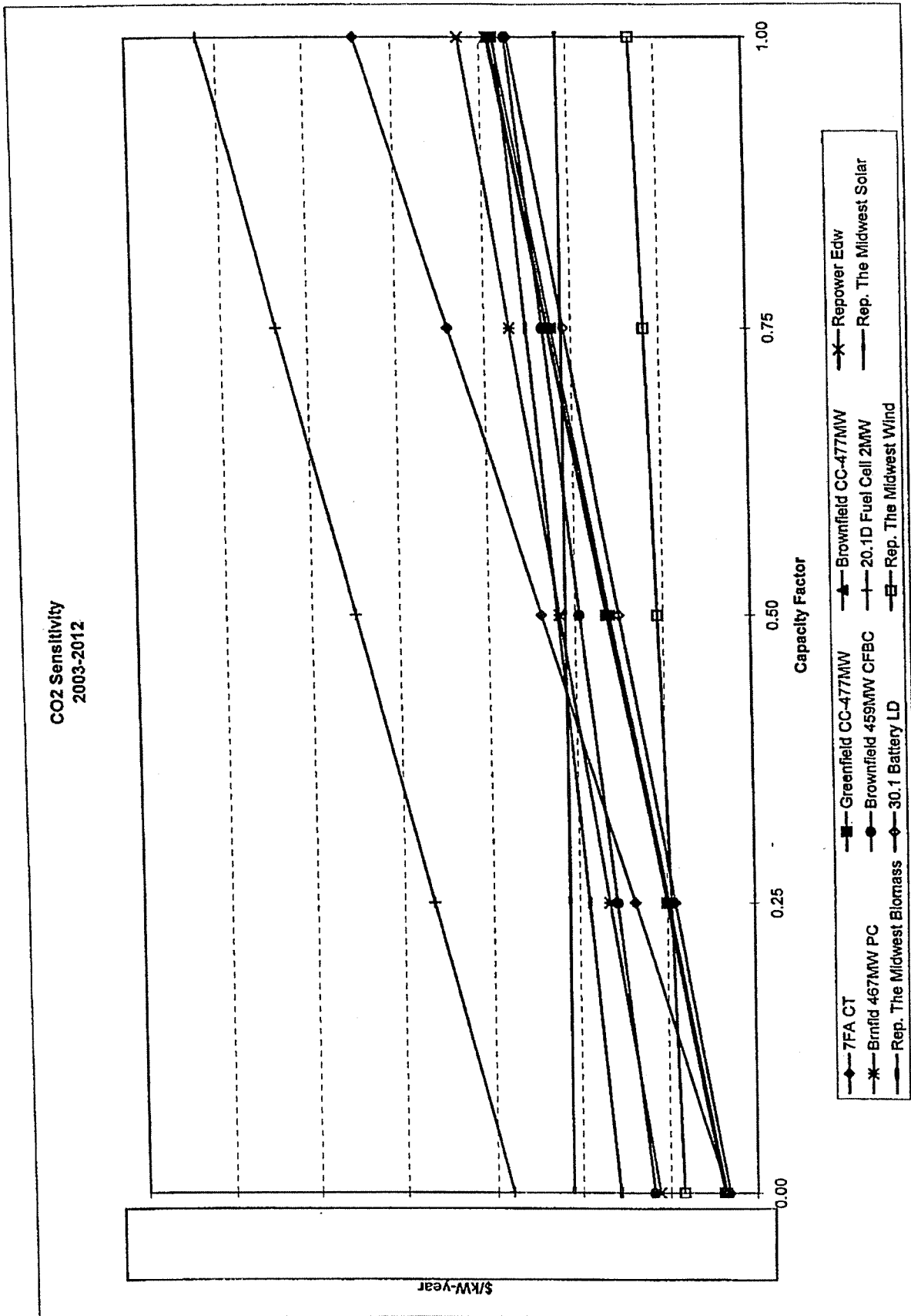
Figure A-5-45

Sensitivity - Reduce Biomass Capital by 70%
 2003-2012



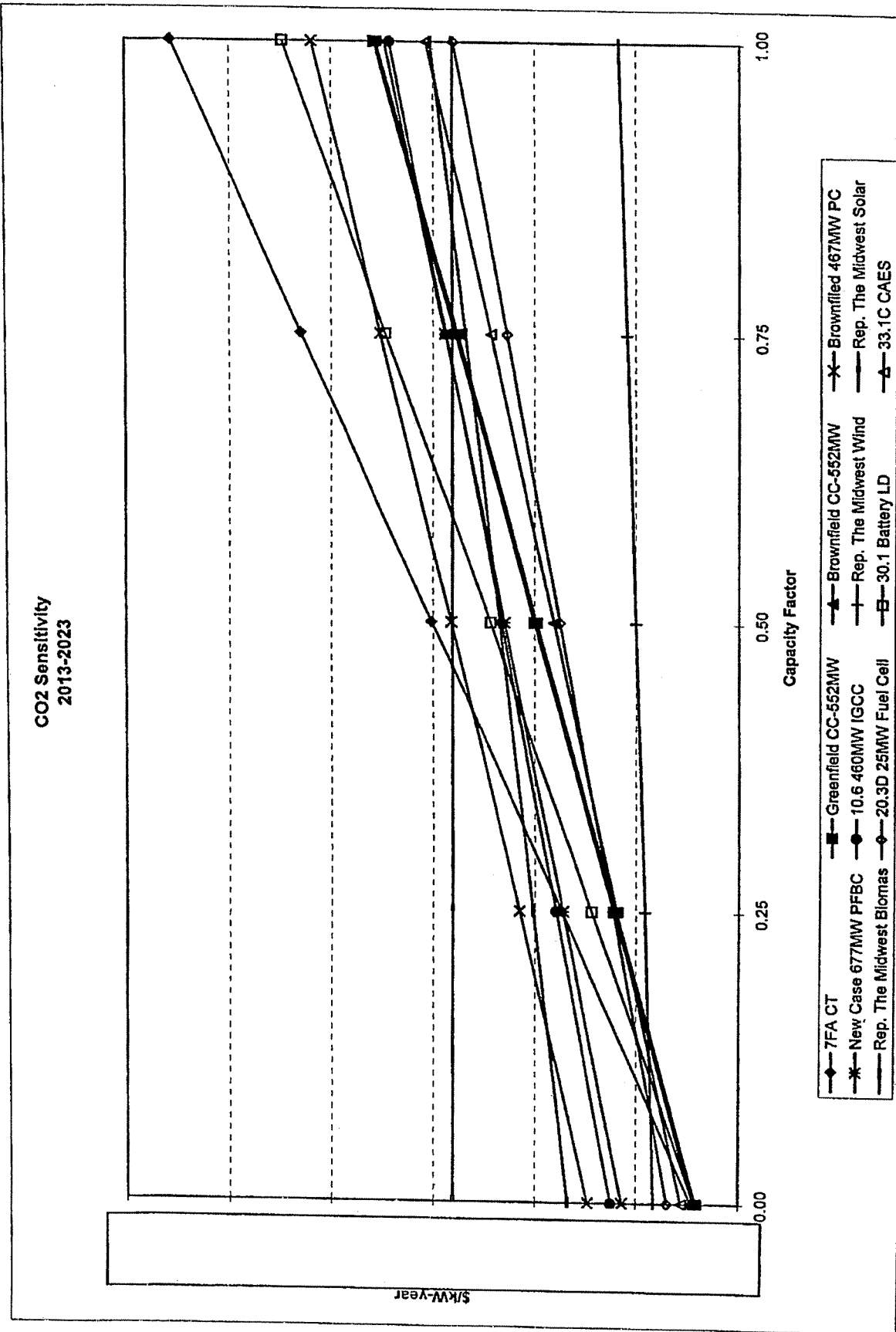
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Figure GA-5-46



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Figure GA-5-47



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SO₂ Allowance Price Forecast

The following table contains the SO₂ allowance price forecast used in the development of this IRP, in redacted form. This forecast is a trade secret and is proprietary to JD Energy. The redacted information will be made available to appropriate parties upon execution of appropriate confidentiality agreements or protective orders. Please contact Diane Jenner at (317) 838-2183 for more information

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SO2 Allowance Price Forecast

Year	Nominal Price \$/Ton
2003	
2004	
2005	
2006	
2007	
2008	
2009	
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	

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NO_x Allowance Price Forecast

The following table contains the NO_x allowance price forecast used in the development of this IRP, in redacted form. This forecast is a trade secret and is proprietary to ICF Consulting. The redacted information will be made available to appropriate parties upon execution of appropriate confidentiality agreements or protective orders. Please contact Diane Jenner at (317) 838-2183 for more information.

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NOx Allowance Price Forecast

Year	Nominal Price \$/Ton
2003	
2004	
2005	
2006	
2007	
2008	
2009	
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	

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