

July 13, 2009

PUBLIC UTILITIES
COMMISSION

2009 JUL 13 P 4: 19

FILED

The Honorable Chairman and Members of the
Hawaii Public Utilities Commission
465 South King Street, First Floor
Kekuanaoa Building
Honolulu, Hawaii 96813

Dear Commissioners:

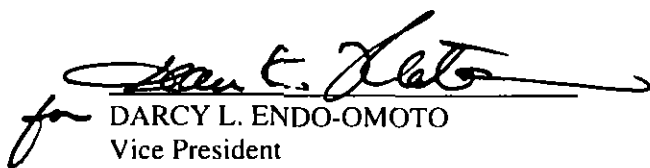
Subject: Docket No. 2008-0249
Establishing Standards for Solar Water Heater Systems
Joint Filing of Applicable Output Tables

Pursuant to the Commission's Decision and Order, filed on July 1, 2009, in the subject proceeding, enclosed for filing are the Solar Collector BTU/Day Output by Hawaii Sunshine Zone tables for islands of Oahu, Maui, Molokai, Hawaii, Kauai, and Lanai.

Ordering Paragraph 3 of said Decision and Order requires Maui Electric Company, Limited ("MECO"), Hawaii Electric Light Company, Inc. ("HELCO") and Kauai Island Utility Cooperative ("KIUC") to file their respective Solar Collector BTU/Day Output by Hawaii Sunshine Zone tables for the islands of Maui, Molokai, Hawaii, Kauai, and Lanai, if applicable. However, because the Hawaiian Electric Company, Inc.'s ("HECO") Output table referenced as Attachment A to the Decision and Order has since been updated and corrected,¹ HECO is also re-filing a revised Output table for the island of Oahu.

KIUC utilizes the same Solar Collector BTU/Day Output by Hawaii Sunshine Zone table with regards to HECO and the island of Oahu. Therefore, the applicable Output tables are being filed jointly.

Sincerely,



DARCY L. ENDO-OMOTO
Vice President
Hawaiian Electric Company, Inc.
Hawaii Electric Light Company, Inc.
Maui Electric Company, Limited



KENT D. MORIHARA
KRIS N. NAKAGAWA
Morihara Lau & Fong LLP
Attorneys for Kauai Island Utility Cooperative

Enclosures

cc: Division of Consumer Advocacy
Kauai Island Utility Cooperative
Hawaii Solar Energy Association
Honeywell International Inc.

¹ HECO Table 6: Solar Collector BTU/Day Output by Hawaii Sunshine Zone provided as part of the Stipulation as Exhibit C (pages 22 to 25) on April 28, 2009 was initially intended to be deleted and therefore was not updated at that time. However, as a result of the Commission's July 1, 2009 Decision and Order including such table as part of the standards for Solar Water Heating Systems ("SWHS"), HECO determined that HECO Table 6: Solar Collector BTU/Day Output by Hawaii Sunshine Zone (i.e., Attachment A to said Decision and Order) needed to be further updated and corrected if it would be included as part of the standards for SWHS in this proceeding.

HECO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format	(BTU/sq ft day)	1845	1661	1476	1292	1107			
Hawaii Sunshine Zone	(Cal/sq cm/day)	500	450	400	350	300			
Nom. Size	Coating	Model							
3' x 7'	Paint	AE-21E	17,528	14,707	11,808	9,299	9,299		
		EP-20	17,528	15,182	12,792	10,332	10,332		
		EP-21	19,373	16,605	13,776	11,365	11,365		
		EPI-308CU (3' X 7')	18,450	15,656	12,792	9,815	9,815		
		EPI-308SS (3' X 7')	18,450	15,656	12,792	9,815	9,815		
		J Collector	20,295	17,079	13,776	10,849	10,849		
		L Collector	13,838	11,861	9,840	7,232	7,232		
		MSC-21E	17,528	15,182	12,792	9,815	9,815		
		SSP-21	18,450	16,131	13,776	10,849	10,849		
		ST-21E	17,528	15,182	12,792	9,815	9,815		
		SunPro 21	18,450	15,656	12,792	9,815	9,815		
3' x 7'	Selective	AE-21	19,373	16,605	13,776	11,365	11,365		
		Apricus AP-10	11,070	9,489	7,872	6,716	6,716		
		Bt	21,218	18,503	15,744	12,398	12,398		
		EC-20	18,450	16,131	13,776	11,365	11,365		
		EC-21	20,295	17,554	14,760	12,398	12,398		
		K Collector	21,218	18,503	15,744	12,915	12,915		
		M Collector	17,528	15,182	12,792	9,815	9,815		
		MSC-21	19,373	17,079	14,760	11,882	11,882		
		SS-21	19,373	16,605	13,776	11,365	11,365		
				SSC-21	20,295	17,554	14,760	12,398	12,398
3' x 8'	Paint	AE-24E	19,373	16,605	13,776	10,849	10,849		
		EP-24	22,140	19,452	16,728	13,432	13,432		
		EPI-308CU (3' x 8')	20,295	17,554	14,760	11,365	11,365		
		EPI-308SS (3' x 8')	20,295	17,554	14,760	11,365	11,365		
		IP-24	22,140	19,452	16,728	13,432	13,432		
		MSC-24E	20,295	17,554	14,760	11,365	11,365		
		SP-24	22,140	19,452	16,728	13,432	13,432		
		SSP-24	21,218	18,503	15,744	12,915	12,915		
				SunPro24	21,218	18,028	14,760	11,365	11,365
				308P-HP	21,218	18,028	14,760	11,882	11,882
3' x 8'	Selective	308C-HP	23,985	20,875	17,712	14,465	14,465		
		AE-24	22,140	18,977	15,744	12,915	12,915		
		EC-24	23,985	20,875	17,712	14,465	14,465		
		IC-24	23,985	20,875	17,712	14,465	14,465		
		MSC-24	22,140	19,452	16,728	13,432	13,432		
		SC-24	23,985	20,875	17,712	14,465	14,465		
		SS-24	22,140	18,977	15,744	12,915	12,915		
				SSC-24	23,985	20,875	17,712	14,465	14,465
4' x 6'	Paint	AE-26E	21,218	18,028	14,760	11,882	11,882		
		MSC-26E	21,218	18,028	14,760	11,882	11,882		
4' x 6'	Selective	AE-26	23,063	19,926	16,728	13,432	13,432		
		MSC-26	23,985	20,875	17,712	14,465	14,465		
		SLCO-30	24,908	21,349	17,712	14,465	14,465		
		SS-26	23,063	19,926	16,728	13,432	13,432		
4' x 7'	Paint	AE-28E	23,063	19,926	16,728	12,915	12,915		
		Gobi 406 002	0	0	0	0	0		
		MSC-28E	23,985	20,400	16,728	12,915	12,915		
4' x 7'	Selective	AE-28	25,830	22,298	18,696	14,981	14,981		
		Gobi 336 013	23,985	20,875	17,712	14,465	14,465		
		Gobi 406 001	25,830	22,773	19,680	16,015	16,015		
		MSC-28	26,753	23,247	19,680	16,015	16,015		
		SS-28	25,830	22,298	18,696	14,981	14,981		
4' x 8'	Paint	408P-HP	27,675	23,721	19,680	14,981	14,981		
		AE-32E	26,753	22,773	18,696	14,465	14,465		
		EP-32	29,520	25,619	21,648	17,564	17,564		
		EPI-308CU (4' x 8')	27,675	23,721	19,750	15,498	15,498		

HECO Table 6. Solar Collector BTU/Day Output by Hawali Sunshine Zone

OG-100 Protocol Format	(BTU/sq ft day)	1845	1661	1476	1292	1107	
Hawaii Sunshine Zone	(Cal/sq cm/day)	500	450	400	350	300	
Nom. Size	Coating	Model					
		EPI-308SS (4' x 8')	27,675	23,721	19,750	15,498	15,498
		Gobi 408 002	29,520	25,145	19,750	16,015	16,015
		IP-32	30,443	26,094	19,750	17,564	17,564
		MSC-32E	26,753	22,773	18,696	14,981	14,981
		SLCO-32P	24,908	20,875	16,728	12,915	12,915
		SP-32	29,520	25,619	21,648	17,564	17,564
		SSP-32	28,598	24,670	20,664	17,048	17,048
		SunPro 32	27,675	23,721	19,750	15,498	15,498
4' x 8'	Selective	408C-HP	33,210	28,940	24,600	19,631	19,631
		AE-32	29,520	25,619	21,648	17,564	17,564
		EC-32	32,288	28,466	24,600	20,147	20,147
		Gobi 408 001	31,365	27,517	23,616	19,114	19,114
		Gobi 408 013	29,520	25,145	20,664	16,531	16,531
		IC-32	32,288	28,466	24,600	20,147	20,147
		MSC-32	29,520	25,619	21,648	17,564	17,564
		SC-32	32,288	28,466	24,600	20,147	20,147
		SLCR-30	30,443	26,568	22,632	19,114	19,114
		SLCO-32	32,288	27,991	23,616	19,114	19,114
		SLCR-32	32,288	28,466	24,600	20,147	20,147
		SSC-32	32,288	28,466	24,600	20,147	20,147
		SS-32	29,520	25,619	21,648	17,564	17,564
4' x 10'	Paint	410P-HP	35,055	29,889	24,600	18,598	18,598
		AE-40E	33,210	28,466	23,616	18,598	18,598
		EP-40	36,900	32,261	27,552	22,214	22,214
		Gobi 410 002	36,900	31,787	26,568	20,664	20,664
		IP-40	37,823	32,736	27,552	22,214	22,214
		MSC-40E	33,210	28,466	23,616	18,598	18,598
		SLCO-40P	29,520	25,145	20,664	16,015	16,015
		SP-40	36,900	32,261	27,552	22,214	22,214
		SSP-40	35,978	31,312	26,568	21,697	21,697
		ST-40E	32,288	27,517	22,632	17,564	17,564
		SunPro 40	35,055	29,889	24,600	19,114	19,114
4' x 10'	Selective	410C-HP	41,513	35,582	29,520	23,764	23,764
		AE-40	36,900	31,787	26,568	21,697	21,697
		EC-40	40,590	35,582	30,504	24,797	24,797
		Gobi 410 001	39,668	34,633	29,520	24,280	24,280
		Gobi 410 013	36,900	31,787	26,568	21,181	21,181
		IC-40	40,590	35,582	30,504	24,797	24,797
		MSC-40	38,745	33,684	28,536	23,247	23,247
		SC-40	40,590	35,582	30,504	24,797	24,797
		SLCO-40	38,745	33,684	28,536	22,730	22,730
		SLCR-40	40,590	35,582	30,504	25,313	25,313
		SSC-40	40,590	35,582	30,504	24,797	24,797
		SS-40	36,900	31,787	26,568	21,697	21,697
4' x 12'	Paint	412P-HP	42,435	35,582	28,536	21,697	21,697
4' x 12'	Selective	412C-HP	49,815	43,173	36,408	29,446	29,446
5' X 7'	Selective	Apricus AP-20	21,218	18,977	16,728	14,465	14,465
		Apricus AP-22	23,985	21,349	18,696	16,015	16,015
7' x 7'	Selective	Apricus AP-30	32,288	28,466	24,600	21,181	21,181
Notes:							
1. Values for the 350 and 450 Sunshine Zones are Interpolated assuming a linear relationship.							
2. Values for the 300 Sunshine Zone equals the 350 Sunshine Zone per Section 2.02.							

HELCO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format		(BTU/sq ft day)	2030	1,845	1,661	1,476	1,292
Hawaii Sunshine Zone		(Cal/sq cm/day)	550	500	450	400	350
Nom. Size	Coating	Model					
3' x 7'	Paint	AE-21E	19,280	17,528	14,707	11,808	9,299
		EP-20	19,280	17,528	15,182	12,792	10,332
		EP-21	21,310	19,373	16,605	13,776	11,365
		EPI-308CU (3' X 7')	20,295	18,450	15,656	12,792	9,815
		EPI-308SS (3' X 7')	20,295	18,450	15,656	12,792	9,815
		J Collector	22,325	20,295	17,079	13,776	10,849
		L Collector	15,221	13,838	11,861	9,840	7,232
		MSC-21E	19,280	17,528	15,182	12,792	9,815
		SSP-21	20,295	18,450	16,131	13,776	10,849
		ST-21E	19,280	17,528	15,182	12,792	9,815
		SunPro21	20,295	18,450	15,656	12,792	9,815
3' x 7'	Selective	AE-21	21,310	19,373	16,605	13,776	11,365
		Aprius AP-10	12,177	11,070	9,489	7,872	6,716
		EC-21	22,325	20,295	17,554	14,760	12,398
		K Collector	23,339	21,218	18,503	15,744	12,915
		M Collector	19,280	17,528	15,182	12,792	9,815
		MSC-21	21,310	19,373	17,079	14,760	11,882
		BT	23,339	21,218	18,503	15,744	12,398
		SS-21	21,310	19,373	16,605	13,776	11,365
3' x 8'	Paint	AE-24E	21,310	19,373	16,605	13,776	10,849
		EP-24	24,354	22,140	19,452	16,728	13,432
		EPI-308CU (3' x 8')	22,325	20,295	17,554	14,760	11,365
		EPI-308SS (3' x 8')	22,325	20,295	17,554	14,760	11,365
		MSC-24E	22,325	20,295	17,554	14,760	11,365
		SP-24	24,354	22,140	19,452	16,728	13,432
		SSP-24	23,339	21,218	18,503	15,744	12,915
		SunPro24	23,339	21,218	18,028	14,760	11,365
		308P-HP	23,339	21,218	18,028	14,760	11,882
3' x 8'	Selective	AE-24	24,354	22,140	18,977	15,744	12,915
		EC-24	26,384	23,985	20,875	17,712	14,465
		MSC-24	24,354	22,140	19,452	16,728	13,432
		SSC-24	24,354	22,140	19,452	16,728	13,432
		308C-HP	26,384	23,985	20,875	17,712	14,465
		SS-24	24,354	22,140	18,977	15,744	12,915
4' x 6'	Paint	AE-26E	23,339	21,218	18,028	14,760	11,882
		MSC-26E	23,339	21,218	18,028	14,760	11,882
4' x 6'	Selective	AE-26	25,369	23,063	19,926	16,728	13,432
		MSC-26	26,384	23,985	20,875	17,712	14,465
		SLCO-30	27,398	24,908	21,349	17,712	14,465
		SSP-32	31,457	28,598	24,670	20,664	17,048
		SS-26	25,369	23,063	19,926	16,728	13,432
4' x 7'	Paint	AE-28E	25,369	23,063	19,926	16,728	12,915
		Gobi 406 002	26,384	23,985	20,400	16,728	12,915
		MSC-28E	26,384	23,985	20,400	16,728	12,915
4' x 7'	Selective	AE-28	28,413	25,830	22,298	18,696	14,981
		Gobi 336 013	26,384	23,985	20,875	17,712	14,465
		MSC-28	29,428	26,753	23,247	19,680	16,015
		Gobi 406 001	28,413	25,830	22,773	19,680	16,015
		SS-28	28,413	25,830	22,298	18,696	14,981
Notes:							
1. Values for the 350 and 450 Sunshine Zones are interpolated assuming a linear relationship.							

HELCO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format		(BTU/sq ft day)	2030	1,845	1,661	1,476	1,292
Hawaii Sunshine Zone		(Cal/sq cm/day)	550	500	450	400	350
Nom. Size	Coating	Model					
4' x 8'	Paint	AE-32E	29,428	26,753	22,773	18,696	14,465
		EP-32	32,472	29,520	25,619	21,648	17,564
		EPI-308CU (4' x 8')	30,443	27,675	23,721	19,750	15,498
		EPI-308SS (4' x 8')	30,443	27,675	23,721	19,750	15,498
		MSC-32E	29,428	26,753	22,773	18,696	14,981
		SP-32	32,472	29,520	25,619	21,648	17,564
		SSP-32	31,457	28,598	24,670	20,664	17,048
		SunPro32	30,443	27,675	23,721	19,750	15,498
		408P-HP	30,443	27,675	23,721	19,880	14,981
		SLCO-32P	27,398	24,908	20,875	16,728	12,915
		Gobi 408 002	32,472	29,520	25,145	20,664	16,015
4' x 8'	Selective	AE-32	32,472	29,520	25,619	21,648	17,564
		EC-32	35,516	32,288	28,466	24,600	20,147
		IC-32	35,516	32,288	28,466	24,600	20,147
		MSC-32	32,472	29,520	25,619	21,648	17,564
		SLCR-30	33,487	30,443	26,568	22,632	19,114
		SLCO-32	35,516	32,288	27,991	23,616	19,114
		SLCR-32	35,516	32,288	28,466	24,600	20,147
		408C-HP	36,531	33,210	28,940	24,600	19,631
		Gobi 408 001	34,502	31,365	27,517	23,616	19,114
		Gobi 408 013	32,472	29,520	25,145	20,664	16,531
		SS-32	32,472	29,520	25,619	21,648	17,564
4' x 10'	Paint	AE-40E	36,531	33,210	28,466	23,616	18,598
		EP-40	40,590	36,900	32,261	27,552	22,214
		MSC-40E	36,531	33,210	28,466	23,616	18,598
		SP-40	40,590	36,900	32,261	27,552	22,214
		SSP-40	39,575	35,978	31,312	26,568	21,697
		ST-40E	35,516	32,288	27,517	22,632	17,564
		SunPro40	38,561	35,055	29,889	24,600	19,114
		410P-HP	38,561	35,055	29,889	24,600	18,598
		SLCO-40P	32,472	29,520	25,145	20,664	16,015
		Gobi 410 002	40,590	36,900	31,787	26,568	20,664
		IP-40	41,605	37,823	32,736	27,552	22,214
4' x 10'	Selective	AE-40	40,590	36,900	31,787	26,568	21,697
		EC-40	44,649	40,590	35,582	30,504	24,797
		410C-HP	45,664	41,513	35,582	29,520	23,764
		MSC-40	42,620	38,745	33,684	28,536	23,247
		SLCO-40	42,619	38,745	33,684	28,536	22,730
		SLCR-40	44,649	40,590	35,582	30,504	25,313
		Gobi 410 001	43,634	39,668	34,633	29,520	24,280
		Gobi 410 013	40,590	36,900	31,787	26,568	21,181
		IC-40	44,649	40,590	35,582	30,504	24,797
		SS-40	40,590	36,900	31,787	26,568	21,697
4' x 12'	Paint	412P-HP	46,679	42,435	35,582	28,536	21,697
4' x 12'	Selective	412C-HP	54,797	49,815	43,173	36,408	29,446
5' x 7'	Selective	Aprilus AP-20	23,339	21,218	18,977	16,728	14,465
		Aprilus AP-22	26,384	23,985	21,349	18,698	16,015
7' x 7'	Selective	Aprilus AP-30	35,516	32,288	28,466	24,600	21,181

Notes:

1. Values for the 350, 450 and 550 Sunshine Zones are interpolated assuming a linear relationship.

MECO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format		BTU/sq ft day	1,845	1,771	1,661	1,587	1,476	1,292	1,107		
Hawaii Sunshine Zone		Solar Zone	500	480	450	430	400	350	300		
Nom. Size	Coating	Model									
3' x 7'	Paint	AE-21E	17,528	16,826	14,707	13,548	11,808	9,299	9,299		
		EP-20	17,528	16,826	15,182	14,226	12,792	10,332	10,332		
		EP-21	19,373	18,598	16,605	15,473	13,776	11,365	11,365		
		EPI-308CU (3' X 7')	18,450	17,712	15,656	14,510	12,792	9,815	9,815		
		EPI-308SS (3' X 7')	18,450	17,712	15,656	14,510	12,792	9,815	9,815		
		J Collector	20,295	19,483	17,079	15,758	13,776	10,849	10,849		
		L Collector	13,838	13,284	11,861	11,052	9,840	7,232	7,232		
		MSC-21E	17,528	16,826	15,182	14,226	12,792	9,815	9,815		
		SSP-21	18,450	17,712	16,131	15,189	13,776	10,849	10,849		
		ST-21E	17,528	16,826	15,182	14,226	12,792	9,815	9,815		
		SunPro21	18,450	17,712	15,656	14,510	12,792	9,815	9,815		
3' x 7'	Selective	AE-21	19,373	18,598	16,605	15,473	13,776	11,365	11,365		
		Apricus AP-10	11,070	10,627	9,489	8,842	7,872	6,716	6,716		
		BT Collector	21,218	20,369	18,503	17,399	15,744	12,398	12,398		
		EC-20	18,450	17,712	16,131	15,189	13,776	11,365	11,365		
		EC-21	20,295	19,483	17,554	16,436	14,760	12,398	12,398		
		K Collector	21,218	20,369	18,503	17,399	15,744	12,915	12,915		
		M Collector	17,528	16,826	15,182	14,226	12,792	9,815	9,815		
		MSC-21	19,373	18,598	16,605	15,867	14,760	11,882	11,882		
		SS-21	19,373	21,000	16,605	15,473	13,776	14,000	14,000		
				SSC-21	19,373	18,598	16,605	15,473	13,776	11,365	11,365
3' x 8'	Paint	AE-24E	19,373	18,598	16,605	15,473	13,776	10,849	10,849		
		EP-24	22,140	21,254	19,452	18,362	16,728	13,432	13,432		
		EPI-308CU (3' x 8')	20,295	19,483	17,554	16,436	14,760	11,365	11,365		
		EPI-308SS (3' x 8')	20,295	19,483	17,554	16,436	14,760	11,365	11,365		
		IP-24	22,140	21,254	19,452	18,362	16,728	13,432	13,432		
		MSC-24E	20,295	19,483	17,554	16,436	14,760	11,365	11,365		
		SP-24	22,140	21,254	19,452	18,362	16,728	13,432	13,432		
		SSP-24	21,218	20,369	18,503	17,399	15,744	12,915	12,915		
				SunPro24	21,218	20,369	18,028	16,721	14,760	11,365	11,365
				308P-HP	21,218	20,369	18,028	16,721	14,760	11,882	11,882
3' x 8'	Selective	AE-24	22,140	21,254	18,977	17,684	15,744	12,915	12,915		
		EC-24	23,985	23,026	20,875	19,610	17,712	14,465	14,465		
		IC-24	23,985	23,026	20,875	19,610	17,712	14,465	14,465		
		MSC-24	22,140	21,254	19,452	18,362	16,728	13,432	13,432		
		SC-24	23,985	23,026	20,875	19,610	17,712	14,465	14,465		
		SS-24	22,140	24,000	18,977	17,684	15,744	16,000	16,000		
				SSC-24	22,140	21,254	19,452	18,362	16,728	13,432	13,432
				308C-HP	23,985	23,026	20,875	19,610	17,712	14,465	14,465
4' x 6'	Paint	AE-26E	21,218	20,369	18,028	16,721	14,760	11,882	11,882		
		MSC-26E	21,218	20,369	18,028	16,721	14,760	11,882	11,882		
4' x 6'	Selective	AE-26	23,063	22,140	19,926	18,647	16,728	13,432	13,432		
		MSC-26	23,985	23,026	20,875	19,610	17,712	14,465	14,465		
		SLCO-30	24,908	23,911	21,349	19,894	17,712	14,465	14,465		
		SS-26	23,063	25,000	19,926	18,647	16,728	17,000	17,000		
4' x 7'	Paint	AE-28E	23,063	22,140	19,926	18,647	16,728	12,915	12,915		
		Gobi 406 002	23,985	23,026	20,400	18,931	16,728	12,915	12,915		
		MSC-28E	23,985	23,026	20,400	18,931	16,728	12,915	12,915		

MECO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format	BTU/sq ft day	1,845	1,771	1,661	1,587	1,476	1,292	1,107	
Hawaii Sunshine Zone	Solar Zone	500	480	450	430	400	350	300	
Nom. Size	Coating	Model							
4' x 7'	Selective	AE-28	25,830	24,797	22,298	20,857	18,696	14,981	14,981
		Gobi 3366	27,675	26,568	24,196	22,783	20,664	17,048	17,048
		Gobi 336 013	23,985	23,026	20,875	19,610	17,712	14,465	14,465
		Gobi 406 001	25,830	24,797	22,773	21,536	19,680	16,015	16,015
		MSC-28	26,753	25,682	23,247	21,820	19,680	16,015	16,015
		SLCR-30	30,443	29,225	26,568	24,994	22,632	19,114	19,114
		SS-28	25,830	28,000	22,298	20,857	18,696	19,000	19,000
4' x 8'	Paint	AE-32E	26,753	25,682	22,773	21,142	18,696	14,465	14,465
		EP-32	29,520	28,339	25,619	24,031	21,648	17,564	17,564
		EPI-308CU (4' x 8')	27,675	26,568	23,721	22,105	19,680	15,498	15,498
		EPI-308SS (4' x 8')	27,675	26,568	23,721	22,105	19,680	15,498	15,498
		Gobi 408 002	29,520	28,339	25,145	23,352	20,664	16,015	16,015
		IP-32	30,443	29,225	26,094	24,315	21,648	17,564	17,564
		MSC-32E	26,753	25,682	22,773	21,142	18,696	14,981	14,981
		SLCO-32P	24,908	23,911	20,875	19,216	16,728	12,915	12,915
		SP-32	29,520	28,339	25,619	24,031	21,648	17,564	17,564
		SSP-32	28,598	27,454	24,670	23,068	20,664	17,048	17,048
		SunPro32	27,675	26,568	23,721	22,105	19,680	15,498	15,498
		408P-HP	28,598	27,454	24,196	22,390	19,680	14,981	14,981
		4' x 8'	Selective	AE-32	29,520	28,339	25,619	24,031	21,648
EC-32	32,288			30,996	28,466	26,919	24,600	20,147	20,147
Gobi 408	34,133			32,767	29,415	27,489	24,600	20,147	20,147
Gobi 408 001	31,365			30,110	27,517	25,957	23,616	19,114	19,114
Gobi 408 013	29,520			28,339	25,145	23,352	20,664	16,531	16,531
IC-32	32,288			30,996	28,466	26,919	24,600	20,147	20,147
MSC-32	29,520			28,339	25,619	24,031	21,648	17,564	17,564
SC-32	31,365			30,110	27,517	25,957	23,616	19,114	19,114
SSC-32	30,443			29,225	26,568	24,994	22,632	18,598	18,598
408C-HP	33,210			31,882	28,940	27,204	24,600	19,631	19,631
SLCO-32	32,288			30,996	27,991	26,241	23,616	19,114	19,114
SLCR-32	32,288			30,996	28,466	26,919	24,600	20,147	20,147
SS-32	29,520			32,000	25,619	24,031	21,648	22,000	22,000
4' x 10'	Paint	AE-40E	33,210	31,882	28,466	26,526	23,616	18,598	18,598
		EP-40	36,900	35,424	32,261	30,377	27,552	22,214	22,214
		Gobi 410 002	36,900	35,424	31,787	29,699	26,568	20,664	20,664
		IP-40	37,823	36,310	32,736	30,662	27,552	22,214	22,214
		MSC-40E	33,210	31,882	28,466	26,526	23,616	18,598	18,598
		SLCO-40P	29,520	28,339	25,145	23,352	20,664	16,015	16,015
		SP-40	36,900	35,424	32,261	30,377	27,552	22,214	22,214
		SSP-40	35,978	34,538	31,312	29,415	26,568	21,697	21,697
		ST-40E	32,288	30,996	27,517	25,563	22,632	17,564	17,564
		SunPro40	35,055	33,653	29,889	27,773	24,600	19,114	19,114
		410P-HP	35,055	33,653	29,889	27,773	24,600	18,598	18,598

MECO Table 6. Solar Collector BTU/Day Output by Hawaii Sunshine Zone

OG-100 Protocol Format	BTU/sq ft day	1,845	1,771	1,661	1,587	1,476	1,292	1,107
Hawaii Sunshine Zone	Solar Zone	500	480	450	430	400	350	300
Nom. Size	Coating	Model						
4' x 10'	Selective	AE-40	36,900	35,424	31,787	29,699	26,568	21,697
		EC-40	40,590	38,966	35,582	33,551	30,504	24,797
		Gobi 410	42,435	40,738	36,531	34,120	30,504	25,313
		Gobi 410 001	39,668	38,081	34,633	32,588	29,520	24,280
		Gobi 410 013	36,900	35,424	31,787	29,699	26,568	21,181
		IC-40	40,590	38,966	35,582	33,551	30,504	24,797
		MSC-40	38,745	37,195	33,684	31,625	28,536	23,247
		MSC-40-H	38,745	37,195	33,684	31,625	28,536	23,247
		SC-40	38,745	37,195	33,684	31,625	28,536	23,247
		SSC-40	37,823	36,310	32,736	30,662	27,552	22,730
4' x 10'	Selective	410C-HP	41,513	39,852	35,582	33,157	29,520	23,764
		SLCO-40	38,745	37,195	33,684	31,625	28,536	22,730
		SLCR-40	40,590	38,966	35,582	33,551	30,504	25,313
		SS-40	36,900	40,000	31,787	29,699	26,568	27,000
4' x 12'	Paint	412P-HP	42,435	40,738	35,582	32,764	28,536	21,697
4' x 12'	Selective	412C-HP	49,815	47,822	43,173	40,467	36,408	29,446
5' x 7'	Selective	Apricus AP-20	21,218	20,369	18,977	18,077	16,728	14,465
		Apricus AP-22	23,985	23,026	21,349	20,288	18,696	16,015
7' x 7'	Selective	Apricus AP-30	32,288	30,996	28,466	26,919	24,600	21,181
Notes:								
1. Values for the 350, 430, 450, & 480 Sunshine Zones are interpolated assuming a linear relationship.								
2. Values for the 300 Sunshine Zone equals the 350 Sunshine Zone per Section 2.02.								
TABLE6Rev16						Effective 11/17/08		