CALIFORNIA ENERGY COMMISSION REPORT OF CONVERSATION Page 1 of 1



Systems Asses				FILE: 06-AFC-2						
Facilities Sitir	ıg Di	vision	PRO	JECT	TITLE: Highgrov	ve Pro	ject			
		916-651-8853		Meet	ing Location: E	mail n	nessage	+ 2 attach's		
NAME:	Rob	ert Worl	D	ATE:	11-08-07		TIME:	0831 AM		
WITH:	Julie	Way, Project Mar	nager A	AES Hi	ghgrove, LLC					
SUBJECT:	Revi	ised Water Utilizati	on Info	rmatio	n					
Please find attavarious water a information is efiling, which tainformation. Prutilize the nonce for clarity, I we first, the attack our Supplement information at a tables include a from the case upoption. (In past	iched literna extrace ble al rovidin confide confide tal C a wor a calcu tilizin t filing se fro	two tables summatives we analyzed ted from the table so compiled sensiting this additional itential flow informatical fl	arizing I in our we income information in o featur ormatic so included reduct ell water ated a	flow in Supple cluded desired a conficient a conficient a conficient a conficient a conficient and for any and for any and for any any and for any any any and for any	formation for the ement C. The in our Confident dential cost ill allow you to analysis. these tables. a 15% case (as in table with flow actor. Second, to overall water use the sewer disposit reduction in	in hese e sal	DAT	OCKET 6-AFC-2 E NOV 0 8 200 CD. NOV 0 8 200		
We trust this in	forma	ation is helpful in y	our ar	nalysis.						
Regards,										
Julie Way										
Project Director	r, AES	S Highgrove, LLC								
Attached are 2	table	S								
cc: Cheryl Cl POS	ossor	n.			ned: Robert Wo	<u> </u>	Jo	2		

PROOF OF SERVICE (REVISED 11 2 07) FILED WITH ORIGINAL MAILED FROM SACRAMENTO ON 11 8 07

AES Highgrove Flow Information Chart for Water Alternatives 15% Annual Capacity Factor

	Least Cost	Current					Impaired Wat	ter Options				
	Option	AFC	100% Impa	ired Water	Blend	w/ Discharge to	Sewer	T	Blend w/ Waster	vater Treatment		ZLD
	100% Site Well	100% Site Well	0% Site Well	0% Site Well	75% Site Well	50% Site Well	25% Site Well	75% Site Well	50% Site Well	25% Site Well	0% Site Well	0% Site Well
	0% Spring St	0% Spring St	100% Spring St	100% Spring St	25% Spring St	50% Spring St	75% Spring St	25% Spring St	50% Spring St	75% Spring St	100% Spring St	100% Spring St
	Sewer	SARI	SARI	Pipe to SARI	Sewer	Sewer	Sewer		WW Treatment			ZLD
Cycles of Concentration	2.7	6.5	4.0	4.0	2.0	1.5	1.3	6.0	5.5	4.8	4.0	4.0
Onsite Well Use	l							ľ				
gpm	928	735	0	0	842	799	557	561	379	193	0	0
acre-ft/yr	225	178	0	0	204	193	135	136	92	4 7	0	0
Used for cooling tower makeup (acre-ft/yr)	151	104	0	0	149	156	116	80	54	28	0	0
Spring Street Well Use	1							1				
gpm	0	0	807	807	281	799	1,672	187	379	580	807	807
acre-ft/yr	0	0	195	195	68	193	405	46	92	140	195	195
Cooling Tower Makeup	1		ľ		1		1	l				
gpm	624	431	503	503	819	1,293	1,925	439	449	470	503	503
acre-ft/yr	151	104	122	122	198	313	466	106	109	114	122	122
Percent of Total process flow	67%	59%	62%	, 62%	73%	81%	86%	59%	59%	61%	62%	62%
Total Process Makeup (excl potable/service water)	}		}					1				l
gpm	928	735	807	807	1,123	1,597	2,229	748	7 5 9	774	807	807
acre-ft/yr	225	178	195	195	272	386	539	181	184	187	195	195
Discharge to Sewer]
gpm	283	2	2	2	478	952	1,584	80	88	103	130	2
acre-ft/yr	68	0	0	0	116	230	383	19	21	25	31	0
Discharge to SARI Line			ļ									1
gpm	0	88	160	160	0	0	0	19	22	25	32	0
No. trucks per day (6700/gal/truck) (15-hour day)	0	12	22	0	0	0	0	3	3	44	5	00
		(193)	(121)	(121)	165	4	1,84	(186)	(160)	(164)	(121)	(121)
Photocolina in Overall Processe Material Use (Inches 1977)	Disco	(47)	(29)	(28)	47	162	218	(44)	(41)	(37)	(29)	(26)
The state of the s	-	41%	-13%	-13%	21%	776	140%	-18%	-18%	-17%	-12%	-(8%
The Control of the Co		And to see Substitute	and selection of the se	St. Harris Harris								
Maximum hours per day used to determine maximum daily flows:	15											
Based on max annual cap factor of:	15%		ľ									
Conversion factor (gal to acre-foot)	325,851		ľ									

	Least Cost	Current					Impaired Water Options	er Options				
	Option	AFC.	100% impa	ired Water	Blenc	Blend w/ Discharge to Sewer	Sewer		Blend w/ Wastewater Treatment	vater Treatment		ZLD
一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	100% Site Well	100% Site Well	IleW etiS %0	0% Site Well	NeW etts %27	50% Site Well	25% Site Well	IIeW ett %67	50% Site Well	25% Site Well	0% Site Well	0% Site Well
	0% Spring St	0% Spring St	¥	100% Spring St	25% Spring St	50% Spring St	75% Spring St	25% Spring St	50% Spring St		×	100% Spring St
	Sewer	SARI		Pipe to SARI	Sewer	Sewer	Sewer	WW Treatment				ZLD
Cycles of Concentration	2.7	6.5	4.0	4.0	2.0	1.5	1.3	0.0	5.5	4.8	4.0	4.0
Onsite Well Use												
gpm	928	8	0	0	84 25	798	89	<u>55</u>	379	19 3	0	0
acre-flyr	4	86	0	0	8	98 86	270	272	Ž	£	0	0
Used for cooling tower makeup (acre-ft/yr)	30 20 20 20	209	0	0	297	313	233	1 88	8	57	0	0
Spring Street Weil Use	_											
gpm	0	0	807	607	281	78	1,672	187	379	580	807	807
acre-flyr	0	0	<u>98</u>	<u>38</u>	38	38 86	88	92	2	281	<u>38</u>	<u>38</u>
Cooling Tower Makeup												
gpm	824	₫	503	58	819	1,283	1,925	23	4	470	503	503
acre-ft/yr	302	209	244	244	98	826 6	88	212	217	227	243	244
Percent of Total process flow	67%	59% 59%	82%	62%	73%	81%	86%	59%	59 898	61 <i>%</i>	62%	83%
Total Process Makeup (excl potable/service water)												
gpm	928	8	807	607	1,123	1,597	2,229	748	759	774	807	807
acre-ft/yr	4	36	<u>38</u>	<u>36</u>	5 <u>4</u>	773	1,079	36 23	367	375	<u>88</u>	<u>36</u>
Discharge to Sewer												
gpm	283	2	2	2	478	95 23	1982,	8	88	ã	<u>8</u>	2
acre-ft/yr	137	-	_	_	231	4 51	767	88	ద	8	83	_
Discharge to SARI Line												
gpm	0	8	8	8	0	0	0	1 9	ß	83	32	0
No. trucks per day (6700/gal/truck) (15-hour day)	0	12	22	0	0	0	0	ω	ω	4	сn	0
	· 如果						The State of the S					· · · · · · · · · · · · · · · · · · ·
PRODUCED TO CHARLES PRODUCED TO THE PROPULATION OF THE PERSONS AND THE PERSONS		(193)	(121)	(121)		8	196.1	(180)	(188)	(184)	(121)	(121)
Reduction in Overall Proposes History Use (some filty)	-	(8.5)	(6.8)	3	ľ	2	2	3	(B.2)	(78)	3	(68)
% Reduction in Overall Propers Mikeup (acre-bys)	Pag	-21%	-13%	文	21%	72%	140%	ż	-19%	3	ż	19%
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·										李 二十二年	
 Maximum hours per day used to determine maximum daily flows: 	15											
Based on max annual cap factor of:	30%											
3. Conversion factor (gal to acre-foot)	325,861											

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA

APPLICATION FOR CERTIFICATION FOR THE AES HIGHGROVE POWER PLANT PROJECT

Docket No. 06-AFC-2 PROOF OF SERVICE (Revised 11/2/07)

INSTRUCTIONS: All parties shall 1) send an original signed document plus 12 copies <u>OR</u> 2) mail one original signed copy AND e-mail the document to the web address below, AND 3) all parties shall also send a printed <u>OR</u> electronic copy of the documents that <u>shall include a proof of service declaration</u> to each of the individuals on the proof of service:

CALIFORNIA ENERGY COMMISSION Attn: Docket No. 06-AFC-02 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512 docket@energy.state.ca.us

APPLICANT

Julie Way
Project Director
AES Highgrove
690 N. Studebaker Rd.
Long Beach, CA 90803
Julie.Way@aes.com

APPLICANT'S CONSULTANTS

John Carrier
CH2M HILL Project Manager
2485 Natomas Park Drive, Suite 600
Sacramento, CA 95833
jcarrier@ch2m.com

COUNSEL FOR APPLICANT

Scott Galati, Project Attorney GALATI & BLEK, LLP 555 Capitol Mall, Suite 600 Sacramento, CA 95814 sgalati@gb-llp.com

INTERESTED AGENCIES

Larry Tobias
Ca. Independent System Operator
151 Blue Ravine Road
Folsom, CA 95630
LTobias@caiso.com

Eric Saltmarsh
Electricity Oversight Board
770 L Street, Suite 1250
Sacramento, CA 95814
esaltmarsh@eob.ca.gov

*Mohsen Nazemi South Coast AQMD 21865 Copley Drive Diamond Bar, CA 91765-4178 mnazemi1@aqmd.gov