1 Laura Schulkind, Bar No. 129799 DOCKET lschulkind@lcwlegal.com Maiya Yang, Bar No. 195970 myang@lcwlegal.com 2 3 LIEBERT CASSIDY WHITMORE DEC 0 6 2007 DATE A Professional Law Corporation DEC 0 6 2007 153 Townsend Street, Suite 520 4 RECD. San Francisco, CA 94107 (415) 512-3000 (415) 856-0306 5 Telephone: Facsimile: Attorneys for Intervenor 6 Chabot-Los Positas Community College District 7 8 Charlotte Lofft, President clofft@chabotcollege.edu 9 Susan Sperling, Grievance Officer ssperling@chabotcollege.edu 10 Faculty Association Chabot College 25555 Hesperian Blvd 11 Hayward, CA 94545 510-723-6873 12 Representatives for Intervenor Chabot-Las Positas Faculty Association 13 14 15 STATE OF CALIFORNIA State Energy Resources 16 Conservation and Development Commission 17 18 In the Matter of: Docket No. 06-AFC-06 19 CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT AND 20 CHABOT-LAS POSITAS FACULTY Application for Certification For the **Eastshore Energy Center** ASSOCIATION'S WITNESS TESTIMONY 21 EXHIBIT LIST 22 23 24 25 CHABOT INTERVENORS SUBMIT THE FOLLOWING: 26 EXHIBIT LIST 27 Testimony of Carolyn Arnold Exhibit 600 28

WITNESS TESTIMONY EXHIBIT LIST

06-AFC-06

1	Student Characteristics Report,	Fall 2007 A	ttachment A to Exhibit	600
2	Biennial Student Survey, Fall 20	007 A	ttachment B to Exhibit	600
3	Testimony of Susan Sperling	E	khibit 601	
4	Testimony of Rachel Ugale	E	khibit 602	
5	Dated: December 6, 2007	Liebert Cassi	dy Whitmore	
6		/		`~
7		ву:Д	->/-	\mathcal{L}
8	V3	Laura Sch Attorneys	for Intervenor	
9		Chabot-L District	os Positas Community	College
10	M Check box if continuation pages are attache	d.		
11	(Proof of Service attached.)			
12				
13				
14				
15	50711.1 CH030-032			
16		+,-		
17				
18			10	
19				
20				
21				
22	#/			
23				
24	93			
24 25				
26				
27				
		- 5		

TESTIMONY OF CAROLYN ARNOLD EXHIBIT 600

1 Laura Schulkind, Bar No. 129799 lschulkind@lcwlegal.com Maiya Yang, Bar No. 195970 myang@lcwlegal.com 2 3 LIEBERT CASSIDY WHITMORE A Professional Law Corporation 4 153 Townsend Street, Suite 520 San Francisco, CA 94107 Telephone: (415) 512-3000 5 Facsimile: (415) 856-0306 6 Attorneys for Intervenor Chabot-Los Positas Community College District 7 8 Charlotte Lofft, President clofft@chabotcollege.edu Susan Sperling, Grievance Officer sperling@chabotcollege.edu 9 10 Faculty Association Chabot College 25555 Hesperian Blvd 11 Hayward, CA 94545 510-723-6873 12 Representatives for Intervenor 13 Chabot-Las Positas Faculty Association 14 15 STATE OF CALIFORNIA State Energy Resources 16 Conservation and Development Commission 17 In the Matter of: 18 Docket No. 06-AFC-06 19 TESTIMONY OF CAROLYN ARNOLD ON Application for Certification For the BEHALF OF CHABOT INTERVENORS 20 **Eastshore Energy Center** PERTAINING TO ENVIRONMENTAL JUSTICE 21 22 23 I am the Coordinator of Institutional Research and Grants for Chabot College, and I have 24 served in this capacity for fourteen years. A copy of my curriculum vitae is part of the record of 25 this proceeding and was filed in conjunction with the Chabot Intervenors' Prehearing Conference 26 27 Statement. 28

My office is responsible for tracking student characteristics, success, and outcomes at Chabot College. Our information is based on quantitative and qualitative data gathered through my office and the office of admissions. My office is responsible for analyzing this data, as well as supplying it for state and federal reporting requirements.

I have reviewed our most recent Student Characteristic Report (a true and correct copy of

I have reviewed our most recent Student Characteristic Report (a true and correct copy of which is attached to my sworn testimony as Attachment A.) Among other things, this report indicates the following:

- --During the course of a semester, Chabot College serves over 14,000 students;
- --During the course of a full academic year, Chabot College serves approximately 22,000 students; and
- -Approximately 70% of our students are minorities.

Additionally, my office just completed Chabot College's biennial student survey (a true and correct copy of which is attached to my sworn testimony as Attachment B.) Among other things, this survey indicates the following:

- --40% of Chabot College's students are in their family's first generation to attend college; and
 - -60% of Chabot College's students are low-income by either federal or local standards.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed on December 6, 2007 at Hayward, California.

Dr. Carolyn Arnold

50695.1 CH030-032

ATTACHMENT A OF EXHIBIT 600

Chabot College Student Characteristics Fall 2007 Preliminary Census

				Vumber	Percent			
			Total Students	14,212	100%			
Gender			 Student Type			Enrollment Pattern		
Female	8,036	57%	Full-time			Day only	7,625	54%
Male	5,855	41%	12 or more units	4,194	30%	Both Day and Eve/Sat	3,229	23%
Unknown	321	2%	Part-time	7,177	30 70	Evening or Eve/Sat	2,884	20%
Ulikilowii	321	270	6 to 11.5 units	4,286	30%	Saturday only	402	3%
<u> </u>			.5 to 5.5 units	5,732	40%	Independently Scheduled	72	1%
Race-ethnicity			Sillib C.C OJ C.	3,732	40 h	macpendently scheduled	12	1 /
African-American	2,102	15%						
Asian-American	2,414	17%	Enrollment Status			Educational Goal		
Filipino	1,445	10%	First time any college	2,603	18%	Transfer		
Latino	3,268	23%	First time transfer	1,448	10%	(with/without AA/AS)	5,278	37%
Middle Eastern	3,208	0%	Returning transfer	1,489	10%	AA/AS only	3,270	3/ /
	101	1%	Returning	352	2%	(not transfer)	1,221	9%
Native American	371	3%	Continuing	8,083	57%	Occupational certificate	1,221	97
Pacific Islander				-		or job training	1 0 47	13%
White	3,110	22%	In High School	237	2%		1,847	13%
Other	252	2%				Personal development		
Unknown	1,113	8%		1		(intellectual/cultural,	1 121	0.01
			Student Educational L		.~	(basic skills, GED)	1,131	8%
~			In High School	427	3%	Other or Undecided	2,769	19%
Citizenship			Freshman (< 30 units)	7,863	55%	Unknown	1,966	14%
U.S. Citizen	11,838	83%	Sophomore (30-59 un.)	2,231	16%			
Permanent Resident	1,706	12%	Other undergraduate	1,427	10%			
Student Visa	105	1%	AA/AS degree	837	6%	New Students: High school		<u>.</u>
Other	561	4%	BA/BS or higher deg.	1,427	10%	Chabot College Districts	1,339	51%
						Castro Valley	124	5%
						Hayward	443	17%
			Official residence			New Haven	287	11%
Age			District Resident	9,635	68%	San Leandro	155	6%
19 or younger	3,452	24%	Other CA Districts	4,280	30%	San Lorenzo	302	12%
20-21	2,256	16%	Other States	154	1%	Moreau	28	1%
22-24	2,095	15%	Other Countries	143	1%	Dublin/Livermore/Pleas	33	1%
25-29	1,790	13%				Other Alameda County	328	13%
30-39	1,844	13%	Note: Cities in the Distr	ict includ	le	Other Bay Area	132	5%
40-49	1,302	9%	Castro Valley, Dublin,	Hayward	d,	Other California	· 556	21%
50 or older 1,47		10%	Livermore, Pleasanton, San Leandro,		Other States	85	3%	
			San Lorenzo, and Uni	on City.		Other Countries	130	5%
						Total new students:	2,603	100%
Local residence: Cit	iec with A	ver 100	students					
Hayward	4,247	30%	San Lorenzo	755	5%	Transfer students: Previous	s college	
San Leandro	2,045	14%	Newark	315	2%	CA Community College	1,602	55%
Union City	1,444	10%	Alameda	183	1%	California State Univ.	365	12%
Castro Valley	1,062	7%	Pleasanton	103	1%	University of California	127	4%
Oakland	916	6%	Livermore	115	1%	CA private colleges	173	6%
Fremont	1,111	8%	Dublin	105	1%	Out of state	281	10%
Licinont	1,111	3 70	Other local cities	1,811	13%	Out of country	228	8%
			Outer local cities	1,011	1370	Unknown	161	5%
						Total transfers:		100%
			and Dassey Dataset Fal				2,937	100%

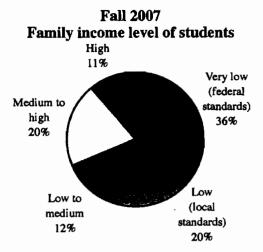
SOURCE: Chabot-Las Positas Institutional Research Dataset, Fall Census, preliminary count as of 10/18/07.

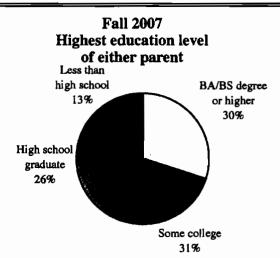
ATTACHMENT B OF EXHIBIT 600

Chabot College Student Accreditation Survey: Fall 2007 **Highlights** Family Income and Status

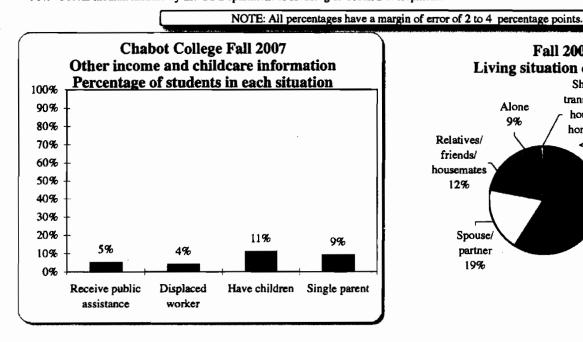
The Student Accreditation Survey collects student demographic data that is not otherwise available, such as family income, parents' education, childcare needs, and living situations. This information is used to plan services and grants that respond to our students' needs. In 2007, 36 percent of Chabot students have low incomes according to federal standards and another 20% have low incomes based on local standards. This means that more than half (56%) of Chabot students are low-income. In addition, almost 60 percent of the students live with their parents. and almost 40 percent are in the first generation of their family to attend college.

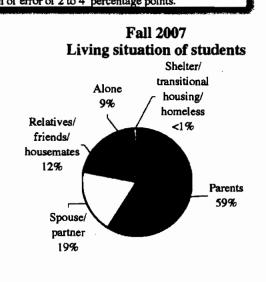
The Student Accreditation Survey was conducted in October 2007 in a representative sample of 69 classes. Surveys were completed by 1,379 students (63% full-time; 37% part-time).





Notes: Family income was self-reported and adjusted by household size. Very low income is defined by the Federal government (i.e., US Department of Health and Human Services) as income earned up to 150% of national poverty level. Low income is defined as about 50% of local median income by the US Department of Housing & Urban Development.





TESTIMONY OF SUSAN STERLING EXHIBIT 601

Laura Schulkind, Bar No. 129799 1 lschulkind@lcwlegal.com Maiya Yang, Bar No. 195970 2 myang@lcwlegal.com LIEBERT CASSIDY WHITMORE 3 A Professional Law Corporation 153 Townsend Street, Suite 520 4 San Francisco, CA 94107 5 Telephone: (415) 512-3000 Facsimile: (415) 856-0306 6 Attorneys for Intervenor Chabot-Los Positas Community College District 7 8 Charlotte Lofft, President clofft@chabotcollege.edu Susan Sperling, Grievance Officer 9 ssperling@chabotcollege.edu **Faculty Association** 10 Chabot College 11 25555 Hesperian Blvd Hayward, CA 94545 12 510-723-6873 Representatives for Intervenor 13 Chabot-Las Positas Faculty Association 14 15 STATE OF CALIFORNIA State Energy Resources 16 Conservation and Development Commission 17 Docket No. 06-AFC-06 In the Matter of: 18 19 TESTIMONY OF SUSAN SPERLING ON Application for Certification For the BEHALF OF CHABOT INTERVENORS 20 Eastshore Energy Center PERTAINING TO PUBLIC HEALTH AND **ENVIRONMENTAL JUSTICE** 21 22 23 I am a tenured faculty member of the Chabot-Las Positas Community College District, 24 and have been teaching at the Chabot College campus for twenty-one years, primarily in the 25 areas of biological and cultural anthropology. Also as a biocultural anthropologist and 26 postdoctoral fellow at UCSF, I have researched the relationship between multiple stressors on 27 immigrant communities and health outcomes, and have taught first and second year medical 28

17

18

19

20

21

22

23

24

25

26

27

28

1

2

3

4

5

6

13 14 15

students at UCSF in the CAB Program (Culture and Behavior across the Curriculum) about these. This is now a required element of medical training at UCSF and in it we examine health behaviors and outcomes in the context of ethnicity, race and socioeconomic class. Medical students are referred to a robust body of research indicating, among other things, that the impact of accumulated environmental stresses may have a differential effect on morbity and mortality in disenfranchised communities when compared to control populations. These stresses include the presence of heavy traffic, air pollution, and industrial plants, among other things. A copy of my curriculum vitae is part of the record of this proceeding and was filed in conjunction with the Chabot Intervenors' Prehearing Conference Statement.

I have reviewed the sworn testimony of Dr. Carolyn Arnold, regarding the demographics of Chabot College. As a long-standing member of the Chabot faculty, I am also familiar with the demographics of the College and surrounding community. Chabot Community College is located in a census tract with a highly diverse immigrant, poor and working class population and this is reflected in the demographics of the college itself. I have worked at Chabot with many students who have no reliable access to routine health care and who are confronting a variety of life stresses unknown to young adults in more affluent families. Many young people spend much of the work week, as do many infants and preschoolers (served by Chabot's Early Childhood Center) on the College campus. Faculty and other staff spend up to 40 or more hours a week at the College. So the College community shares with other local communities certain population features as well as risks.

I have reviewed the Final Staff Assessment (FSA) in this matter and find significant flaws in the methodology used by staff to analyze Environmental Justice ("EJ") impacts on the surrounding community, including Chabot College. It is my conclusion that these errors make the ultimate conclusions that there are no significant EJ impacts flawed and unreliable.

Failure to Consider the Chabot College Student Community

It is clear from a review of the FSA, that its demographic screening did not consider the presence of approximately 15,000 majority-minority students on the Chabot campus in its EJ analysis. In my opinion, it is appropriate to consider student populations, as well as residential

populations in conducting demographic screening and EJ analysis. I am aware that, even without considering the demographics of the Chabot student population, the FSA found that the surrounding community is over 50% minority and therefore conducted a disparate impact analysis in certain areas. However, students have unique vulnerabilities which should have been part of the disparate impact analysis. In particular, a majority of our students are the first in their family to attend a post-secondary educational institution and are at significant risk of dropping out. Any increased stressors increase the risk that they will not continue their education. A thorough EJ analysis would take into consideration the impacts on an educational institution devoted largely to minority and poor students who are seeking an education to break out of the cycle of poverty.

Failure to Recognize Chabot-Las Positas Community College District as an Interested Local Agency

As recognized in the FSA, EJ factors include not only the negative environmental impacts on minority and low-income communities, but their equal access to the process for approving power plant sites. It is very troubling that the community of Chabot students—who largely come from minority, low-income and immigrant communities—did not receive the protection and advocacy of their college district. Their greatest opportunity to be heard and have their interests articulated is through the community college. By failing to solicit the required analyses and recommendations from the District, a historically disenfranchised community was relegated to the fringes of this process.

FSA Conclusions Relating to Land Use Compatibility and Traffic/Transportation

The California Government Code at §65040.12 defines environmental justice as "fair treatment of people of all races, cultures and incomes with respect to the development, allocation, implementation, and enforcement of environmental laws, regulations and policies." (Eastshore FSA, 2007, 2-4) In reviewing 11 areas of potential concern regarding environmental justice raised by the proposed Eastshore Project, CEC staff found only two requiring "environmental justice screening": Land Use and Traffic, and Transportation. In each of these two areas however, staff set aside environmental justice concerns because they concluded that potential adverse public health and other effects would have no differential impact on populations by race,

ethnicity or socioeconomic class (Eastshore FSA 2-4.) Thus, while acknowledging that "A greater than 50% minority and low-income population have been identified within a one-mile radius of the Eastshore site" (FSA, 1-5), CEC staff does not find significant issues of environmental justice posed by the proposed Eastshore development. For the reasons discussed below, this analysis is flawed because it incorrectly assumes that different populations experience environmental impacts in the same way.

FSA Conclusions that Eastshore Does Not Present Health Risks to Poor and Minority Communities

The FSA Public Health section prepared by Dr. Greenberg (4.7-1), evaluates potential public health risks posed by the project and "does not expect there would be any significant adverse cancer, or short or long-term non-cancer health effects from the project", and that "emissions from Eastshore would not contribute significantly to morbity or mortality in any age or ethnic group residing in the project area." For the reasons discussed below, this conclusion is also flawed, as it fails to consider public health concerns particular to minority and low-income communities. The FSA indicates that its analysis accounted for impacts on what it describes as, "the most sensitive individuals in a given population, including newborns and infants," However, this methodology is inadequate, as there is no indication that it considered the unique vulnerabilities of poor and low-income residential and student communities.

Methodology Concerns

There are a number of lines of evidence not considered by CEC staff that call into question staff conclusions regarding potential environmental justice impact and public health. In drawing these conclusions, CEC staff have not considered a body of emerging relevant theory and data from public health/epidemiological disciplines examining the particular susceptibilities of low-income and minority populations to multiple stressors in the physical, economic and social environments. Conditions such as low birth weight, hypertension, cardiovascular disease and asthma pose problems in many low-income communities (Committee on Population, 2007; O'Neil et al.,2003). Low birth weight alone appears to predispose individuals to greater vulnerability to environmental stress over the entire lifespan (Barker, 1998). These and other

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

emergent data require that we redefine what constitute acceptable levels of air pollution for particular communities.

As CEC staff consultant Dr. Greenberg acknowledges in the FSA "Exposure to multiple toxic substances may result in health effects that are equal to, less than, or greater than effects resulting from exposure to the individual chemicals. Only a small fraction of the thousands of potential combinations of chemicals have been tested for the health effects of combined exposures." (Eastshore FSA, 4.7-6) Clearly the area of multiple toxics exposure is in an early stage of science. In light of this fact, the emerging data on higher susceptibilities of vulnerable populations must be reviewed by the CEC for an impartial and fair analysis of these important issues, and as mandated by CEC rules and procedures.

CEC staff analysis also does not adequately take into account the potential cumulative impact of siting a second new power plant in a community already at heightened risk (see below), and heavily impacted by exhaust from diesel truck traffic in the immediate vicinity of the College and the plant(s). As the FSA makes clear, the demographics of the relevant surrounding area raise potential issues of environmental justice if air quality is affected by the proposed siting of the Eastshore Project. Recent research indicates that acceptable thresholds for pollutants may vary, depending upon demographics and accumulated stresses. Thus, a threshold that applies to a socioeconomically privileged demographic may differ for disenfranchised communities. This fact is simply not addressed anywhere in the FSA.

A Report of the Public Law Research Institute at UC Hastings College of Law, Opportunities for Environmental Justice in California, Agency by Agency (Auyong, 2003) raises some similar issues in CEC processes of analyzing environmental justice concerns:

> In attempting to integrate environmental justice concerns into this process the CEC focuses on three issues: demographics, public outreach, and impact assessment.....First the CEC examines the demographic nature of the potentially "affected area", i.e. within a six-mile radius of the proposed facility, or a more precise area when feasible. The criteria for what makes an area "affected" include air quality, water, visuals, traffic, public health, and noise effects. If "minority" or "low-income" individuals comprise over 50% of the population in this "affected area", than an affected minority and/or low-income population is found. This finding.

presumably, is the threshold for the CEC to determine that environmental justice is possibly implicated in the matter.

The assumptions underlying this finding, however, are debatable. For example, the determination of the affected area appears to consider only the additional impact of the power facility, not the cumulative impact of the facility with other existing conditions that affect air quality, water, public health, etc., in this area. (emphasis mine.).

The Hastings Report concludes that the CEC appears to be making a good faith effort to address certain environmental justice issues in the licensing of power plants, but that "Whether these efforts are sufficient is open to debate." (Auyong, 2003) The Report raises the following questions about CEC processes of considering environmental justice (pp. 19-25.):

- Are the public hearings merely informational, or are comments truly welcome?
- Have the important decisions already been made prior to any public announcements or hearing?
- Are cumulative and indirect impacts taken into full consideration and how?
- Does current and future policy take adequate account of history of the proximity of many power facilities to minority and/or low-income communities?

The Report concludes that the CEC is mandated to assess trends in energy consumption and to "analyze the social, economic, and environmental consequences of these trends." (Public Resources Code 25216a) and that "Having pertinent data is an essential requirement to identify, evaluate and, where appropriate, act on or dispel, environmental justice concerns."

The Hastings Public Law Research Institute is not alone in raising questions about the CEC's current methodology in assessing environmental justice issues. The Latino Issues Forum's Report on California Energy Planning (2001) addresses concerns that: "...the State of California's rush to build gas-fired power plants as a solution to the energy crisis (is) at odds with its mandates to protect public health, the environment, and insure environmental justice for people of color and the poor. "The study examines 18 power plant projects, 17 of which are peaker plants, (for which specific location data were available to the public at the CEC web Site as of June 30, 2001.) The study concludes that "the majority of power plants considered by the CEC are planned for or being built in neighborhoods populated by people of color---especially

2

3

4

5

6

7

8

9

10

11

21

22

23

24

25

26

27

28

Latinos and African Americans." The report proposes that, in light of these data, the Governor and Legislature should place a moratorium on all present and future gas-fired generation development until the CEC completes "full and detailed environmental justice impact analyses and comprehensive environmental reviews of existing and proposed energy facilities."

Clearly, there is significant debate in legal and other interested communities about the current CEC approach to environmental justice concerns and these debates also provide a context for my testimony.

Biocultural Factors: The Differential Impact of Cumulative Stress in low-income and **Underserved Communities**

The Committee on Population (CPOP) of the National Academy of Sciences defines stress as "environmental demands that tax or exceed the adaptive capacity of an organism, resulting in biological and psychological changes that may be detrimental and place the organism at risk for disease or disability (Cohen et al., 1998). The hypothesis that "greater exposure to stress over the life course increases susceptibility to morbity and mortality among members of minority groups" is well supported by data from many reliable epidemiological studies both here and abroad.

For example, British researcher Dr. Andrew Steptoe of the Department of Epidemiology and Public Health at University College, London studied residents of 18 higher SES neighborhoods and 19 low SES neighborhoods (Steptoe et al., 2001). The study concluded that high levels of noise, smells, and fumes from industrial plants in poorer neighborhood were associated with "poorer self-rated health, psychological distress and reduced ability to carry out activities of daily living." (Interestingly Steptoe et al. found no association between neighborhood and different levels of smoking, diet or alcohol consumption or physical activity, suggesting that the environmental factors associated with poorer neighborhoods may act as independent stressors.)

The Eastshore FSA notes that asthma rates vary by race/ethnicity in Alameda County, with African Americans experiencing over twice the rate of asthma as non Hispanic whites. Public health research in numerous studies has demonstrated the prevalence of asthma at epidemic levels among minority populations in California and elsewhere. Given the apparent

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

greater susceptibility of certain groups to environmental stressors, including pollution, a uniform "acceptable level" of plant emissions may not apply to such populations. Risk factors may accrue in logarithmic progressions rather than additively. Again, research on the prevalence low birth weight in low-income communities (Barker, 1998) suggests that this factor alone can lead to greater effects from cumulative environmental challenges and higher morbidity and mortality at every life stage. The Eastshore FSA acknowledges "It is evident that further research is needed to definitively link emissions from gas-fired plants as a cause or exacerbation of asthma (FSA: 4.7-15). Given this fact, how then can we know, as stated two pages later, that "All impacts at all receptors, including sensitive receptors such as schools, would be below the level of significant impact." (FSA: 4.7-17) What is an acceptable level of emissions from a second gas-powered plant near communities with potentially heightened susceptibilities, given that by CEC staff's own admission, further research is needed to establish a linkage between such emissions and asthma?

Yet, even without definitive data on such, we know quite a lot about populations at risk and the environmental hazards they tend to confront. According to the U.S. National Academy of Sciences Understanding Racial and Ethnic Differences in Health in Late Life: a research agenda (2004) "A considerable body of evidence has established that individuals of low socioeconomic status are more likely to suffer from disease, to experience loss of functioning, to be cognitively and physically impaired, and to experience higher mortality. The influence of socioeconomic status on health is assumed to begin in the prenatal environment and continue through life. Parents' socioeconomic status affects childhood conditions, such as exposure to toxins and infectious agents. These conditions affect health immediately and possibly for years afterwards, the effects being only partly moderated by later changes in status..."

Recent data indicate that the interaction between socioeconomic status and air pollution in low-income communities is not just additive. Such emissions as produced by a natural gaspowered plant may have a greater impact on the health of working class and low-income communities. . A study by O'Neil et al. (2003) in the journal Environmental Health Perspectives notes that groups with lower socioeconomic status may receive more exposure to air pollution, and that such groups have already experienced greater material deprivation, less consistent access

to bealth care and greater psychosocial stress, and may therefore be more susceptible to the health effects of air pollution. Because of this mix of greater susceptibility and greater exposure to air pollution, such populations are apt to suffer differential and worse health effects from the presence of pollution plants than more economically privileged communities. These include reduced life expectancy, poorer birth outcomes and higher rates of asthma and cardiovascular disease.

In conclusion, I am confident that a more thorough review by CEC staff of relevant research on the potential adverse effect of the proposed siting of the Eastshore Project will indeed raise issues of environmental justice. The many low income, immigrant and minority communities served by the College are at potentially increased risk of suffering negative health impacts. It is incumbent upon us as an academic community to bring to your attention the most current, valid and heuristic science to consideration of these crucial issues.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed on December 6, 2007 at Hayward, California.

Susan Sperling

References Cited

Agyemang, Van Hooijdonk et al. (2007) Ethnic Differences in the Effect of Environmental Stress on Blood Pressure and Hypertension in the Netherlands. BMC Public Health 7:118

Auyong, Pointer, and Wellington (2003) Opportunities for Environmental Justice in California Agency by Agency. San Francisco: The Public Law Research Institute at Hastings College of the Law

Barker, D.J.P. (1998) Mothers, Babies and Health in Later Life .(2nd Edition) Edinbergh: Churchill Livingstone

Committee on Population (CPOP) National Academy of Sciences (2004) <u>Understanding Racial and Ethnic Differences in Health in Late Life: A Research Agenda</u>. National Academy of Sciences. Washington, D.C.: The National Academies Press

O'Neill, M., M. Jerrett, I. Kawachi et al. (2003) <u>Health, Wealth, and Air Pollution: Advancing Theory and Methods-Review</u>. Environmental Health Perspectives, Dec. (111: 1861-1870.)

Power against the People: Moving Beyond Crisis Planning in California Energy.

LIEBERT CASSIDY WHITMORE A Professional Law Corporation 6033 W. Century Boulevard, Suite 500 Los Angeles, CA 90045

(2001)A Report of the Latino Issues Forum. Steptoe, A. (2001) Annals of Behavioral Medicine, August 2001. 50693.1 CH030-032 - 10 -

TESTIMONY OF RACHEL UGALE EXHIBIT 602

1	Laura Schulkind, Bar No. 129799							
2	lschulkind@lcwlegal.com Maiya Yang, Bar No. 195970							
3	myang@lcwlegal.com LIEBERT CASSIDY WHITMORE							
4	A Professional Law Corporation 153 Townsend Street, Suite 520							
5	San Francisco, CA 94107 Telephone: (415) 512-3000							
6	Facsimile: (415) 856-0306 Attorneys for Intervenor Chabot-Los Positas Community College District							
7								
8	Charlotte Lofft, President							
9	clofft@chabotcollege.edu Susan Sperling, Grievance Officer ssperling@chabotcollege.edu Faculty Association							
10								
11	Chabot College 25555 Hesperian Blvd							
12	Hayward, CA 94545 510-723-6873							
13	Representatives for Intervenor Chabot-Las Positas Faculty Association							
14								
15								
16	STATE OF CALIFORNIA State Energy Resources							
17								
18	Conservation and Development Commission							
19								
20	In the Matter of:	Docket No. 06-AFC-06						
21	·	TESTIMONY OF RACHEL UGALE ON						
22	Application for Certification For the Eastshore Energy Center	BEHALF OF CHABOT INTERVENORS PERTAINING TO IMPACT ON						
23		EDUCATIONAL RESOURCES						
24								
25								
26	I have served as a member of the classified service of the Chabot-Las Positas Community							
27	College District at its Chabot campus for thirteen years. I am also president of the Classified							
	Senate of Chabot College, and have served in this position for three years. The Classified Senate							
28								

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

participates in shared governance of the College and participates in decisions that relate to the interests and welfare of the college's classified employees. In my capacity as Senate President, I am familiar with the needs and concerns of the college's classified employees.

High Level of Exposure to the Environment

Chabot College employs approximately 226 classified staff on a 94 acre campus with over 30 buildings. Many classified staff has duties that require them to work outside and engage in strenuous outside activities for all or part of the day. These jobs include such things as grounds maintenance, repairs, security, transportation and delivery services, leading outside recreational activities for children, and providing athletic training to our sports teams. Additionally, virtually all classified staff are routinely required to walk from building to building in the course of fulfilling their duties.

This regular and often strenuous outdoor activity has raised the serious concerns of the Classified Senate as to the potential negative health impacts of the Eastshore Power Plant on classified staff. It is my understanding that the specific demographics of Chabot College were not taken into consideration in analyzing the Eastshore application, and that these concerns were therefore not adequately factored into the CEC staff's conclusions.

Impacts on Staffing

Additionally the Classified Senate has serious concerns that approval of a second power plant so close to the campus will negatively impact student enrollment, which in turn threatens staffing levels. Chabot College's state funding is keyed to its enrollment. Thus, as enrollment declines, so does funding; and if funding declines, cutbacks in staffing are likely to occur.

The Classified Senate is also concerned with the impact of siting a second power plant so close to the campus on staff recruitment and retention. As president of the Classified Senate, I am involved in the hiring and retention of classified staff. It has been my direct experience that the college is already suffering with a high turn-over rate and difficulty filling positions. The Classified Senate believes that approval of the Eastshore Plant will compound this problem.

Classified Senate Resolution

Due to these serious concerns, on November 30, 2007, the Classified Senate, on behalf of

the classified staff of Chabot College, adopted a resolution opposing approval of the Eastshore Plant.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed on December 6, 2007 at Hayward, California.

Rachel Ugale

50009.1 CH030-032

1 2

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

APPLICATION FOR CERTIFICATION FOR THE EASTSHORE ENERGY CENTER IN CITY OF HAYWARD BY TIERRA ENERGY Docket No. 06-AFC-6

PROOF OF SERVICE (Revised 12/04/07)

<u>INSTRUCTIONS</u>: All parties shall either (1) send an original signed document plus 12 copies <u>or (2)</u> mail one original signed copy AND e-mail the document to the address for the Docket as shown below, AND (3) all parties shall also send a printed <u>or</u> electronic copy of the document, <u>which includes a Proof of service</u> <u>declaration</u> to each of the individuals on the proof of service list shown below:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 06-AFC-6 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512 docket@energy.state.ca.us

APPLICANT

Greg Trewitt, Vice President
Tierra Energy
710 S. Pearl Street, Suite A
Denver, CO 80209
greg.trewitt@tierraenergy.com

APPLICANT'S CONSULTANTS

David A. Stein, PE
Vice President
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
dstein@ch2m.com

COUNSEL FOR APPLICANT

Jane Luckhardt, Esq.
Downey Brand Law Firm
555 Capitol Mall, 10th Floor
Sacramento, CA 95814
iluckhardt@downeybrand.com

Jennifer Scholl
Senior Program Manager
CH2M HILL
610 Anacapa Street, Suite B5
Santa Barbara, CA 93101
jscholl@ch2m.com

INTERESTED AGENCIES

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

INTERVENORS

Paul N. Haavik 25087 Eden Avenue Hayward, CA 94545 lindampaulh@msn.com

James Sorensen, Director
Alameda County Development Agency
Att: Chris Bazar & Cindy Horvath
224 West Winton Ave., Rm 110
Hayward CA 94544
james.sorensen@acgov.org
chris.bazar@acgov.org
cindy.horvath@acgov.org

Richard Winnie, Esq.
Alameda County Counsel
Att: Andrew Massey, Esq.
1221 Oak Street, Rm 463
Oakland, CA 94612
richard.winnie@acgov.org
andrew.massey@acgov.org

Harry Rubin, Executive Vice President RAMCO Generating Two 1769 Orvietto Drive Roseville, CA 95661 hmrenergy@msn.com

Jewell J. Hagleroad
For Group Petitioners
Law Office of Jewell J. Hargleroad
1090 B Street, No. 104
Hayward, CA 94541
jewelhargleroad@mac.com

Jay White, Nancy Van Huffel, Wulf Bieschke, & Suzanne Barba San Lorenzo Village Homes Assn. 377 Paseo Grande San Lorenzo, CA 94580 jwhite747@comcast.net slzvha@aol.com wulf@vs-comm.com suzbarba@comcast.net

Laura J. Schulkind
Maiya Yang
Liebert Cassidy Whitmore
153 Townsend Street, Suite 520
San Francisco, CA 94107
lschulkind@lcwlegal.com
myang@lcwlegal.com

Charlotte Lofft & Susan Sperling
Chabot College Faculty Association
25555 Hesperian Way
Hayward, CA 94545
clofft@chabotcollege.edu
ssperling@chabotcollege.edu

Greg Jones, City Manager
Maureen Conneely, City Attorney
City of Hayward
777 B Street
Hayward, California 94541
greg.jones@hayward-ca.gov
michael.sweeney@hayward-ca.gov
maureen.conneely@hayward-ca.gov
david.rizk@hayward-ca.gov

ENERGY COMMISSION

Jeffrey D. Byron, Presiding Member jbyron@energy.state.ca.us

John L. Geesman, Associate Member igeesman@energy.state.ca.us

Susan Gefter, Hearing Officer sgefter@energy.state.ca.us

Bill Pfanner, Project Manager bpfanner@energy.state.ca.us

Caryn Holmes, Staff Counsel cholmes@energy.state.ca.us

Public Adviser pao@energy.state.ca.us

Diana Graves
Michael Hindus
Pillsbury Winthrop Shaw Pittman LLP
50 Fremont Street
San Francisco, CA 94120
diana.graves@pillsburylaw.com
michael.hindus@pillsburylaw.com
ronald.vanbuskirk@pillsburylaw.com

Robert Sarvey
501 W. Grantline Road
Tracy, CA 95376
sarveybob@aol.com

DECLARATION OF SERVICE

I, Ervietta McCullough, declare that on December 6, 2007, deposited a copy of the attached Chabot-Las Positas Community College District and Chabot Faculty Assocation (Chabot Intervenors) Witness Testimouy Declarations of Carolyn Arnold, Susan Speriing and Rachel Ugale; in the United States mail at San Francisco, California with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

<u>OR</u>

Transmitted via facsimile transmission to those identified above with a Fax number.

<u>or</u>

Transmission via electronic mail was consistent with the requirements of the California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.

49916.1 CH030-032

From:

"Ervietta McCullough" <emccullough@lcwlegal.com>

To:

"docket@energy.state.ca.us" <'docket@energy.state.ca.us'>, "greg.trewitt...

Date:

12/6/2007 1:55 PM

Subject:

FW: Eastshore Energy Center; 06-AFC-06

Attachments:

Witness Testimony Exhibits.PDF

Ervietta McCullough Assistant to Partners Rick Bolanos & Laura Schulkind and Associates Andrew Lu and Arlin Kachalia Liebert Cassidy Whitmore 153 Townsend Street, Suite 520 San Francisco, CA 94107 (415) 512-3000 Fax: (415) 856-0306 emccullough@lcwlegal.com

The preceding e-mail message (including any attachments) contains information that may be confidential, be protected by the attorney-client or other applicable privileges, or constitute attorney work product or non-public information. It is intended to be conveyed only to the designated recipient(s). If you are not an intended recipient of this message, please notify the sender by replying to this message and then delete it from your system. Use, dissemination, distribution, or reproduction of this message by unintended recipients is not authorized and may be unlawful.

From: Ervietta McCullough

Sent: Thursday, December 06, 2007 1:44 PM

To: 'docket@energy.state.ca.us'; 'greg.trewitt@tierraenergy.com';

'dstein@ch2m.com'; 'jscholl@ch2m.com'; 'hmrenergy@msn.com';

'jluckhardt@downeybrand.com'; 'ltobias@caiso.com';

'greg.jones@hayward-ca.gov'; 'michael.sweeney@hayward-ca.gov';

'maureen.conneely@hayward-ca.gov'; 'david.rizk@hayward-ca.gov';

'diana.graves@pillsburylaw.com'; 'michael.hindus@pillsburylaw.com';

'ronald.vanbuskirk@pillsburylaw.com'; 'lindampaulh@msn.com';

'james.sorensen@acgov.org'; 'chris.bazar@acgov.org';

'cindy.horvath@acgov.org'; 'richard.winnie@acgov.org';

'andrew.massey@acgov.org'; 'jbyron@energy.state.ca.us';

'jgeesman@energy.state.ca.us'; 'sgefter@energy.state.ca.us';

'bpfanner@energy.state.ca.us'; 'cholmes@energy.state.ca.us';

'pao@energy.state.ca.us'; 'jewellhargleroad@mac.com';

'jwhite747@comcast.net'; 'slzvha@aol.com'; 'wulf@vs-comm.com';

'suzbarba@comcast.net'; Laura Schulkind; Maiya Yang;

'ssperling@chabotcollege.edu'; 'susansperling@sbcglobal.net';

'clofft@chabotcollege.edu'; 'sarveybob@aol.com'

Subject: Eastshore Energy Center; 06-AFC-06

Importance: High

Dear Parties: