PUBLIC CITIZEN

Buyers Up ☐ Congress Watch ☐ Critical Mass ☐ Health Research Group ☐ Litigation Group

June 28, 1989

Melinda Malloy
or Project Manager for Comanche Peak
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Melinda Malloy:

In its Nuclear Power Safety Report for 1987, Public Citizen's Critical Mass Energy Project published Evacuation Time Estimates (ETEs) for almost every commercial reactor site in the country. The data was culled from the NRC's Public Document Room dockets and from NUREG/CR-1856, dated 1981. Most of the ETEs in the PDR were from the early '80s. We are writing you now to update that information for the Comanche Peak site specifically.

Public Citizen is a non-profit research and advocacy organization founded in 1971 to address a wide range of consumer and environmental issues. The Critical Mass Energy Project is the energy policy arm of Public Citizen.

Because ETEs are usually calculated by contractors for individual utilities and can utilize many different methods and include numerous evacuation scenarios, Public Citizen has chosen one standard approach for comparing ETEs. We are interested in knowing the utility's latest estimate for the amount of time it will take to fully notify and evacuate all civilians within any segment of the 10-mile zone around Comanche Peak on a regular weekday, during daylight hours, with fair weather.

This standardized figure is provided in Appendix M (enclosed) of our report. We would greatly appreciate your verifying the ETE and the population data (if possible) and responding to our query.

It is important that all ETEs be dated so that our readers will know when it was calculated. This is especially important with older estimates and sites that are in rapidly changing areas.

If you do not have the latest ETE for Comanche Peak, please call your contact at the site and ask for it. For documentation purposes, please provide us with the time of your call and the name of the person that gave you the ETE and its date. Finally, if possible, please ask that the contact send the cover sheet of the ETE document with the pertinent page.

215 Pennsylvania Ave. SE ☐ Washington, DC 20003 ☐ (202) 546-4996

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Thank you very much for your help in this matter. Please respond by July 17, 1989. We appreciate your cooperation in helping the public stay informed of the status of their neighboring nuclear power stations.

Sincerely,

GT.3.7

Kenneth Boley
Nuclear Safety Analyst
Critical Mass Energy Project
of Public Citizen

Enclosure

Evacuation Time Estimate (ETE) Update
For Comanche Peak

If the data on the enclosed Appendix M is accurate for this site, please so indicate and skip to number 5. Is the data in Appendix M correct? ___YES / ___NO

If no:

1. Estimated time for full notification and evacuation of all civilians within any sector of the 10-mile zone surrounding the reactor site on normal weekday, daylight hours, fair weather:

   _____ hours

2. Date of above ETE calculation: _____, 19__

3. Name of firm (contractor) that calculated the above ETE:

   _____

4. Population within 10 miles of the site:

   _____ people in permanent population

   _____ people in transient population (summer tourists, etc.)

   _____ Date when this population data was current

5. Name, title, and affiliation of contact at Comanche Peak that provided the above information:

   _____

   _____

6. Date on which the above information was provided by contact listed in number 5 above:

   _____, 1989

7. Is contact (__) or NRC representative (__) sending documentation to Public Citizen?

   YES__ / NO__

8. Your name and title: _____

Thank you very much for your help in this endeavor. Please return this form by July 17, 1989 to:

Kenneth Boley
Public Citizen
215 Pennsylvania Ave., SE
Washington, DC 20003

Appendix M
Evacuation Time Estimates

REACTOR	PERMANENT POPULATION	RANK BY PERMANENT POPULATION	TRANSIENT POPULATION	RANK BY TRANSIENT POPULATION	TOTAL POPULATION	RANK BY TOTAL POPULATION	ESTIMATED EVACUATION TIME (Hrs)	RANK BY EVACUATION TIME	NEAREST CENTER OF POPULATION
Arkansas	25,394	37	6,000	33	31,394	42	4.8	31	Russellville, AR
Beaver Valley *	142,268	5	3,400	45	145,668	6	5.8	25	E. Liverpool, OH
Big Rock Point	9,274	58			9,274	64	5.3	26	Charlevoix, MI
Braidwood	26,015	36	8,105	30	34,120	38	3.0	55	Braidwood, IL
Browns Ferry *	27,678	34	19,600	23	47,278	31	1.5	67	Decatur, AL
Brunswick *	10,583	57	21,000	19	31,583	41	**		Southport, NC
Byron	21,393	43	43,762	10	65,155	25	3.2	53	Rockford, IL
Callaway	5,759	64	4,545	40	10,304	61	3.4	48	Fulton, MO
Calvert Cliffs *	19,972	46	1,150	56	21,122	49	9.1	9	Annapolis, MD
Catawba *	81,423	9	46,879	9	128,302	10	3.4	48	Rock Hill, SC
Clinton	12,666	54	28,472	15	41,138	34	3.2	53	Clinton, IL
Cook	53,755	19	16,089	24	69,844	22	6.1	17	Benton Harbor, MI
Cooper *	5,417	66	3,000	47	8,417	65	**		Nebraska City, NE
Crystal River-3	13,595	53	1,010	58	14,605	55	6.8	15	Red Level, FL
Davis-Besse *	16,427	48			16,427	53	7.0	14	Toledo, OH
Diablo Canyon *	18,099	47	53,700	7	71,799	18	4.3	35	San Luis Obispo, CA
Dresden *	39,289	24	5,900	34	45,189	32	8.0	11	Morris, IL
Duane Arnold *	79,323	10			79,323	16	10.6	3	Cedar Rapids, IA
Farley	10,601	56	1,420	53	12,101	57	4.0	37	Dothan, AL
Fermi-2	71,517	14			71,517	19	4.0	37	Laguana Beach, MI
Fitzpatrick *	35,155	28	20,790	20	55,945	27	3.8	42	Oswego, NY
Ft. Calhoun *	15,254	51	871	59	16,125	54	4.2	36	Omaha, NE
Ft. St. Vrain *	16,373	49	350	60	16,723	52	10.0	4	Denver, CO
Ginna	39,162	25	5,863	35	45,025	33	4.6	33	Rochester, NY
Grand Gulf-1	7,255	63	2,873	48	10,128	62	2.4	62	Vicksburg, MS
Haddam Neck *	74,080	11	29,415	14	103,495	13	8.3	10	Meriden, CT
Hatch *	5,312	67	150	62	5,462	69	10.0	4	Baxley, GA
Hope Creek *	22,556	40	5,539	36	28,095	43	6.0	20	Wilmington, DE
Indian Point *	240,455	2	92,852	1	333,307	1	5.2	28	New York, NY
Kewaunee *	11,086	55			11,086	58	4.0	37	Green Bay, WI
La Crosse	7,307	62			7,307	67	2.0	64	LaCrosse, WI
LaSalle *	13,913	52	3,130	46	17,043	51	10.0	4	Ottawa, IL
Limerick-1	164,870	3	23,165	18	188,035	4	4.8	31	Philadelphia, PA
Maine Yankee *	28,730	32	42,338	11	71,068	20	3.8	42	Bath, ME
McGuire	46,233	22	31,178	13	77,411	17	4.0	37	Charlotte, NC
Millstone *	110,166	6	83,129	2	193,295	3	9.6	8	New London, CT
Monticello	20,153	45			20,153	50	0.9	68	Minneapolis, MN
Nine Mile Point *	35,155	28	20,790	21	55,945	27	3.8	42	Oswego, NY
North Anna *	8,688	60	1,166	55	9,854	63	8.0	11	Richmond, VA
Oconee *	50,841	21	20,000	22	70,841	21	3.5	47	Greenville, SC
Oyster Creek *	71,440	15	73,676	4	145,116	7	6.0	20	Forked River, NJ
Palisades	32,773	30			32,773	39	2.0	65	South Haven, MI
Palo Verde *	761	71	4,000	42	4,761	70	3.0	55	Pheonix, AZ

Appendix M (cont'd)

REACTOR	PERMANENT POPULATION	RANK BY PERMANENT POPULATION	TRANSIENT POPULATION	RANK BY TRANSIENT POPULATION	TOTAL POPULATION	RANK BY TOTAL POPULATION	ESTIMATED EVACUATION TIME (Hrs)	RANK BY EVACUATION TIME	NEAREST CENTER OF POPULATION
Peach Bottom *	28,647	33	9,858	29	38,505	35	6.5	20	Lancaster, PA
Perry-1 *	71,902	13	53,271	8	125,173	11	3.7	45	North Perry, OH
Pilgrim-1	41,401	23	83,085	3	124,486	12	5.1	29	Plymouth, MA
Point Beach *	20,994	44	1,200	54	22,194	47	4.0	37	Manitowoc, WI
Prairie Island *	21,462	42			21,462	48	1.8	66	Minneapolis, MN
Quad Cities *	36,445	27	12,035	26	48,480	30	12.0	2	Moline, IL
Rancho Seco *	8,552	61	2,234	50	10,786	60	3.7	45	Sacramento, CA
River Bend-1	22,872	39	13,700	25	36,572	36	3.3	51	Baton Rouge, LA
Robinson-2	26,900	35	5,000	38	31,900	40	4.5	34	Hartsville, SC
Salem *	22,556	40	5,539	36	28,095	43	6.0	20	Wilmington, DE
San Onofre	57,150	18	25,900	16	83,050	15	5.0	30	San Clemente, CA
Sequoyah *	38,972	26	24,000	17	62,972	26	2.2	63	Chattanooga, TN
Shearon Harris-1	15,795	50	11,000	28	26,795	46	3.4	48	Newhill, NC
St. Lucie *	94,854	7	40,000	12	134,854	9	6.3	16	Fort Pierce, FL
Summer	8,869	59	2,000	51	10,869	59	3.3	51	Columbia, SC
Surry *	73,411	12	63,755	6	137,166	8	10.0	4	Newport News, VA
Susquehanna	51,232	20	3,720	43	54,952	29	6.1	17	Berwick, PA
Three Mile Island-1	161,509	4	6,335	32	167,844	5	8.0	11	Harrisburg, PA
Trojan *	65,346	16	1,500	52	66,846	24	6.0	20	Portland, OR
Turkey Point *	92,664	8	4,500	41	97,164	14	6.1	17	Miami, FL
Vermont Yankee	31,909	31	3,544	44	35,453	37	3.0	55	Brattleboro, VT
Vogtle	2,669	69	200	61	2,869	71	3.0	55	Waynesboro, GA
Washington Nuclear-2 *	1,338	70	11,824	27	13,162	56	2.8	59	Richland, WA
Waterford-3	60,009	17	7,000	31	67,009	23	5.3	26	New Orleans, LA
Wolf Creek-1 *	5,520	65	1,100	57	6,620	68	**		Burlington, KS
Yankee-Rowe	24,718	38	2,443	49	27,161	45	2.6	61	Pittsfield, MA
Zion *	245,006	1	65,750	5	310,756	2	21.0	1	Chicago, IL
TOTALS:	3,080,956		1,185,800		4,266,756				
AVERAGES:	44,014		19,439		60,954		5.1		
INCLUDING SEABROOK AND SHOREHAM:									
Seabrook-1	100,720		116,988		217,708		**		
Shoreham	108,804		21,420		130,224		**		
Totals:	3,290,480		1,324,208		4,614,688				
Averages:	45,701		21,019		64,093				

* Indicates source is individual Evacuation Time Estimate. Otherwise from NRC's NUREG/CR-1856, "An Analysis of Evacuation Time Estimates Around 52 Nuclear Power Plant Sites" (July 1981).

** Evacuation Time Estimates not available in NRC's Public Document Room.