TABLE E-5
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

A. CALIFORNIA ENERGY COMMISSION'S ONGOING PUBLIC HEALTH CONDITIONS OF CERTIFICATION

Unit	Condition Number	Condition
16	6-1	During the first year of operations, provide California Department of Health Services Radiological Health Section (CDHS/RHS) with quarterly sampling results of Radon-222 concentrations entering the plant. After first year, annual reports will be submitted.
	6-2	If Radon-222 concentration exceeds 3.0 pCi/l in the cooling tower exhaust, CDHS/RHS must be notified by written report with 30 days of detection.
	6-3	PG&E will notify CDHS/RHS and the CEC within 24 hours if levels of Radon-222 exceed 6.0 pCi/l in the cooling tower exhaust. A special report will follow outlining corrective actions taken.
17	2-1	Sample and analyze for Radon-222 quarterly and provide annual reports to CDHS/RHS.
	2-2	If Radon-222 concentration exceeds 3.0 pCi/l in the cooling tower exhaust, PG&E must inform the CDHS/RHS with a written report of the sample results within 30 days.
	2-3	If Radon concentration exceeds 6.0 pCi/l in the cooling tower exhaust, PG&E shall notify the CDHS/RHS and the CEC by telegram or telephone within 24 hours upon confirming the sample result.
	2-5	PG&E shall submit to the CEC and Air Pollution Control Officer quarterly steam reports and analysis within 30 days of the quarterly sampling.
18	2-1	Provide annual reports on radon
	2-2	PG&E shall provide a written report to the CDHS/RHS of sample results within 30 days of confirmation of an exceedance of 3.0 pCi/l in the cooling tower exhaust.

TABLE E-5 (Continued)
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

Unit	Condition Number	Condition
18 (cont.)	2-3	If Radon concentration exceeds 6.0 pCi/l in the cooling tower exhaust, PG&E shall notify the CDHS/RHS and the CEC by telephone within 24 hours of confirmation of the sample.
	2-5	PG&E shall prepare and Implement an ambient monitoring program or participate in developing and implementing a generic program for monitoring ambient concentrations of mercury (vapor and particulate state), arsenic, ammonia, and vanadium at the populated areas of Whispering Pines and Anderson Springs.
	2-6	Perform steam analysis for ammonia, arsenic, mercury and boron upon written request of the NSCAPCD.
	2-7	If the results of the quarterly steam analyses indicate significant concentrations of ammonia, arsenic, mercury, and boron, and/or if results of the baseline ambient monitoring indicate significant concentrations of ammonia, arsenic, mercury, and vanadium, then PG&E shall monitor or participate in operational ambient monitoring of pollutants in question in populated areas of Whispering Pines and Anderson Springs during the second year following commercial operation.
20	2-1	Sample and analyze for Radon-222 quarterly and provide annual reports to CDHS/RHS.
	2-2	If the Radon-222 concentration exceeds 3.0 pCi/l in the cooling tower exhaust, PG&E must inform the CDHS/RHS with a written report of the sample results within 30 days.
	2-3	If Radon concentration exceeds 6.0 pCi/l in the cooling tower exhaust, PG&E shall notify the CDHS/RHS and the CEC by telegram or telephone within 24 hours upon confirming the sample result.
	2-4	PG&E can participate in GAMP to meet ambient monitoring. If PG&E participates in GAMP, PG&E shall notify the CEC.
	2-5	PG&E shall perform annual steam analysis for ammonia, arsenic mercury, and boron. A written report will be submitted to CDHS within 30 days of the analysis. After one year, the NSCAPCD, in consultation with CEC, shall determine if annual testing is sufficient.

TABLE E-5 (Continued)
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

B. CALIFORNIA ENERGY COMMISSION'S ONGOING SAFETY CONDITIONS OF CERTIFICATION

Unit	Condition Number	Condition
16	9-2	On-site worker safety inspections shall be conducted by CAL/OSHA and if employee complaint is received.
17	12-2	PG&E shall note any CAL/OSHA inspections in its periodic Compliance Reports.
18	12-3	The plant shall notify the Siting Department of CAL/OSHA inspections so that they may include this information in their periodic compliance reports. (Note: The Siting Department of PG&E no longer exists. The Geysers Plant has assumed the responsibility for this Condition.)
	12-4	A) Post warnings in areas where H_2S concentration could possibly exceed CAL/OSHA regulations. B) Require employees to secure entry permits and the approval of the Operating Foreman before entering a restricted area C) Set area alarms to ring when H_2S levels exceed 10 ppm. D) Discontinue work unless approved breathing apparatus is worn. E) Instruct employees about the hazards of H_2S.
	12-8	Personnel handling H_2S abatement materials shall be provided eye protection, rubber gloves, and rubber aprons. Emergency eye wash and shower stations should be provided adjacent to chemical workstations. Warning labels shall be placed on piping and chemical storage systems.
20	12-14	PG&E and the California Department of Forestry shall annually reexamine the fire protection plan.
	12-15	Note any on-site worker safety inspections and actions by the California Department of Toxic Substances Control.

TABLE E-5 (Continued)
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

C. CALIFORNIA ENERGY COMMISSION'S ONGOING SOLID WASTE MANAGEMENT CONDITIONS OF CERTIFICATION

Unit	Condition Number	Condition
16	10-1	Keep a letter on file verifying that hazardous waste haulers have California Department of Toxic Substance Control ((DTSC) certificates of registration.
	10-2	Any sludge which accumulates in the cooling tower will be vacuumed off and hauled by a registered hazardous waste hauler to an approved disposal site.
	10-3	Notify the CEC, DTSC, and Solid Waste Management Board of the selected disposal site. Any notice of change in disposal sites will be submitted as changes occur.
	10-4	If a secondary abatement system is used to abate H_2S emissions, the plant may produce additional hazardous wastes. To ensure that these wastes are properly disposed, PG&E shall submit its secondary waste plans, if secondary abatement is required, to the CEC for review.
	10-5	Notify the CEC if PG&E files an application with DTSC for the operation of a Hazardous Waste Facility.
17	11-1	Each month PG&E shall submit completed hazardous waste manifest to DTSC in compliance with Section 66475 of Title 22, California Administrative Code.
	11-2	PG&E shall keep on file, at the project site, copies of hazardous waste manifests which shall be made available to the CEC staff upon request.
	11-3	PG&E shall notify the CEC if it files and in-lieu application with DTSC for the operation of the hazardous waste facility.
18	11-1	PG&E shall each month submit completed hazardous waste manifests to DTSC in compliance with Section 66475 of Title 22, California Administrative Code.
	11-2	Disposal site changes require notification to the CEC, DTSC, and Solid Waste Management Board.
18 (cont.)	11-3	In the event hazardous wastes including Stretford sulfur effluent are stored on site for more than 90 days, PG&E shall obtain a hazardous waste facility permit from DTSC or a waiver of such permit.
20	11-1	PG&E shall keep letters on file verifying that hazardous waste haulers for Geysers Unit 20 have valid DTSC

TABLE E-5 (Continued)
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

Unit	Condition Number	Condition
20 (cont.)		certification of registration.
	11-2	PG&E shall each month submit completed hazardous waste manifests to DTSC in compliance with Section 66475 of Title 22, California Administrative Code.
	11-4	PG&E shall promptly notify the CEC if it files an in-lieu application with DTSC for the operation of a hazardous waste facility.
	11-7	Comply with all applicable provisions of the Resource Conservation and Recovery Act and California Hazardous Waste Laws; provide copies of all required documents under such laws to the CEC within 60 days of filing with the appropriate agencies.
	11-8	Notify the CEC within 10 days of notification of an impending enforcement action against PG&E, the waste hauler, or disposal site operation.

TABLE E-5 (Continued)
HAZARDOUS MATERIALS-RELATED CONDITIONS OF CERTIFICATION FOR GEYSERS PLANT

D. CALIFORNIA ENERGY COMMISSION'S ONGOING WATER QUALITY, HYDROLOGY AND WATER RESOURCES CONDITIONS OF CERTIFICATION

Unit	Condition Number	Condition
16	11-2	PG&E shall comply with the Emergency Accidental Spill and Discharge Control Plan and Procedures, Geysers Power Plant (revised February 15, 1980). (Note: The Emergency Accidental Spill and Discharge Control Program was renamed the Zero Discharge Program and revised February 28,1996.)
	11-5	To prevent spills of Stretford process material from leaving the immediate vicinity, PG&E shall surround the H_2S abatement process area with an impermeable concrete barrier. Spilled Stretford process material will drain to a sump where it will be pumped to a chemical storage tank for reuse in the Stretford process or for disposal off site at an approved Class II-1 solid waste disposal site.
	11-6	Should a spill of condensate or other material occur, the spill would flow to a 1,000 gallon, concrete-lined catch basin located at the lowest point on the plant site. The catch basin shall be equipped with a 100 gallon per minute pump to return spilled material to the cooling tower basin for reinjection. If a spill occurs which is larger than the capacity of the pump, PG&E plant personnel shall use a portable pump to remove excess material. Alarm systems will notify plant operators when a spill has occurred and when the catch basin has started. PG&E plant personnel shall respond to the alarm within 30 minutes and take measures necessary to correct the problem.
	11-9	PG&E shall dispose of domestic wastewater by reinjection into the steam supplier's reinjection system. The waste will be treated in a septic tank to remove solids, and discharged to the reinjection line at a point between the condensate surge pond and the reinjection well.
17	6-1	Condensate spill letters and lab results will be kept on file and be made available to the CEC or public upon request.
18	6-2	At the end of construction activities, PG&E will submit to the CEC and the SCBO "as-built" drawings for the spill containment basin signed by a registered civil engineer. PG&E and Sonoma County will maintain "as-built" files for the life of the project and guarantee CEC access to these files.
	6-3	Report a spill to the NCRWQCB by telephone within 24 hours and by written report within 2 weeks of spill occurrence.
20	6-14	Notify CEC immediately following an accidental discharge by vehicle into Anderson or Gunning Creek and provide descriptions of problem and corrective actions.