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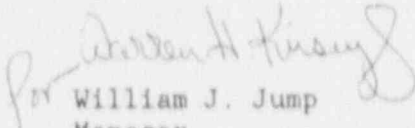
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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project Electric Generating Station
Units 1 & 2
Docket Nos. STN 50-498 & 50-499
Annual Environmental Operating Report for 1990

Pursuant to the South Texas Project Electric Generating Station (STPEGS) Unit 1 Operating License NPF-76 and Unit 2 Operating License NPF-80 Appendix B, Environmental Protection Plan (Nonradiological), attached is the Annual Environmental Operating Report for 1990.

If you should have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628.


William J. Jump
Manager,
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MKJ/sgs

Attachment: Annual Environmental Operating
Report for 1990

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11

Houston Lighting & Power Company
South Texas Project Electric Generating Station

ST-HL-AE-3735
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Page 2

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SOUTH TEXAS PROJECT
ELECTRIC GENERATING
STATION

NPOD

1990

ANNUAL

ENVIRONMENTAL

OPERATING REPORT

HOUSTON LIGHTING & POWER COMPANY

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION

ANNUAL ENVIRONMENTAL
OPERATING REPORT
FOR
1990

Prepared by

Chemical Operations & Analysis Division
Technical Services Department/Nuclear Plant Operations

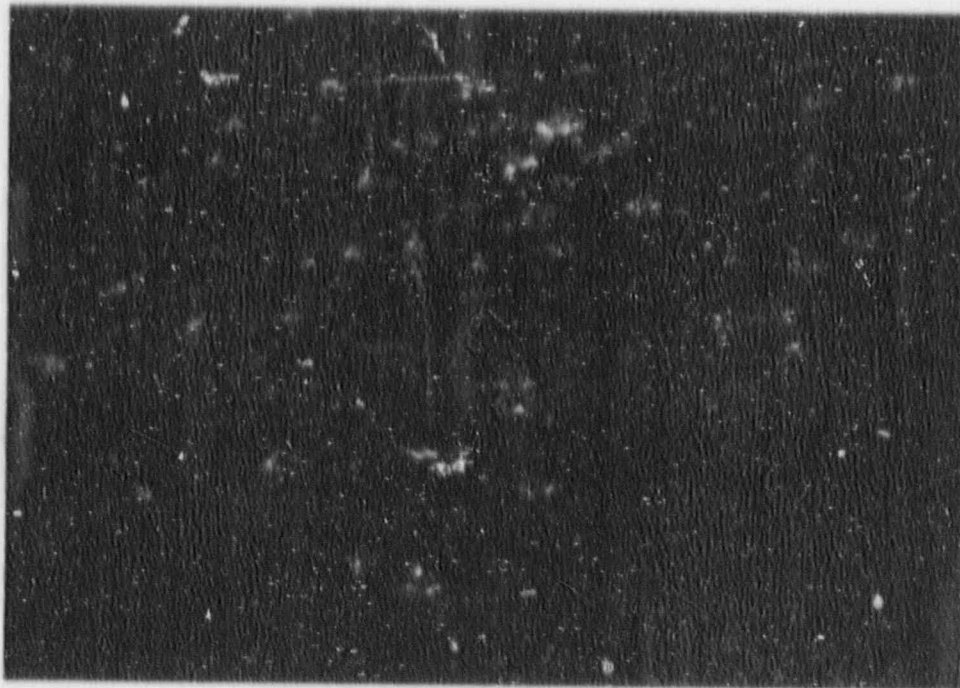
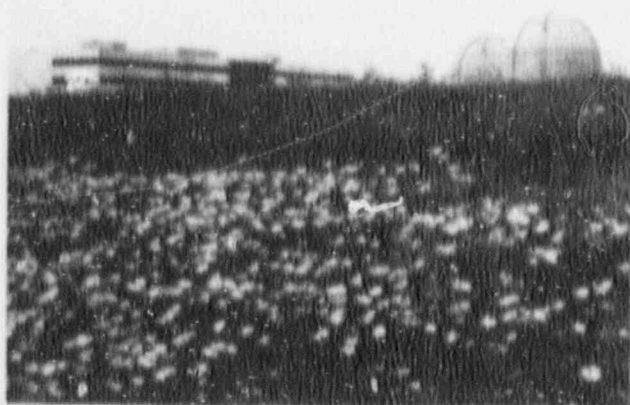


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1. Introduction and Summary

The South Texas Project Electric Generating Station (STPEGS) is located on 12,300 acres in Matagorda County, Texas, approximately 15 miles southwest of Bay City along the west bank of the Colorado River. STPEGS consists of two 1250-MWe units, a 7,000 acre Main Cooling Reservoir (MCR), a 49.2 acre Essential Cooling Pond (ECP), and attendant pumping and discharge facilities.



STPEGS is jointly owned by Houston Lighting & Power Company (HL&P), Central Power & Light Company, the City of Austin, and the City of San Antonio. HL&P has been designated as Project Manager for the owners and is responsible for implementation of all environmental programs. Environmental protection is a major objective at the STPEGS and has been since project inception.

Management objectives emphasize leadership in environmental protection. Towards this goal, STPEGS employs a staff of professional site environmental personnel who are responsible for developing and implementing site environmental protection programs and monitoring the site's environmental compliance status. In addition to STPEGS's environmental staff, support is provided by HL&P's corporate environmental staff who act as the interface organization with regulatory agencies for STPEGS regarding environmental issues.

The following report fulfills requirements established in Sections 3.1 and 5.4.1 of Appendix B to Facility Operating License Nos. NPF-76 and NPF-80, South Texas Project, Units 1 and 2, Houston Lighting & Power Company, et al., Docket Nos. 50-498 and 50-499, Environmental Protection Plan (Nonradiological), March, 1989 (EPP). The timeframe for this report covers January 1, 1990 through December 31, 1990 inclusive. Environmental monitoring for STPEGS during 1990 was conducted by plant and corporate HL&P personnel in accordance with federal and state regulations and applicable plant procedures. The following report offers a compendium of plant environmental activities and notable events for 1990.

11. Environmental Protection Plan Status (EPP)

The Environmental Protection Plan (Nonradiological) was issued in March of 1989 to provide for protection of nonradiological environmental values during operation of STPEGS. This plan is described in Appendix B to Facility Operating License No. NPF-76 and NPF-80, South Texas Project, Units 1 and 2, Houston Lighting & Power Company, et al., Docket Nos. 50-498 and 50-499. As required in the EPP, this section reviews construction and operational activities which had the potential to significantly affect the environment, EPP noncompliances and the corrective actions taken, activities which involved a potentially significant unreviewed environmental question, and nonroutine reports submitted in accordance with Subsection 5.4.2 of the EPP.



A. Operational Activities

In order to minimize or prevent adverse impact to the environment which might result from operational activities, plant design changes, changes in operations, tests or experiments which might involve a change to the EPP or which could have a significant environmental impact are evaluated for such impacts in accordance with applicable plant procedures. Among the significant activities evaluated during 1990 were temporary modifications to the oily waste treatment system, temporary modifications to allow use of additional sump pumps in the Condensate Polisher areas of the Turbine Generator Buildings, the installation of isolation valves in the plant storm drain system to provide

containment of any potential spill which might enter the storm drain system, and draining of the Unit 1 condenser waterbox for maintenance activities. These projects are summarized below.

Oily Waste Treatment System

Various modifications were associated with the Oily Waste Treatment System (OWTS) in 1990. A temporary modification initiated in 1989 for Units 1 and 2 was completed to provide the ability to process high pH influent from the condensate system which does not contain visible oil from the Turbine Generator Building (TGB) Oily Waste Sump No. 2 by redirecting flow from the sump to the Condensate Polisher (CP) sump. This allows high pH water to be sent to the appropriate treatment system (Neutralization Basin) for processing instead of to the OWTS which is not designed to process high pH water. This modification also allows condensate inventory control. Temporary depth filter was installed within the OWTS containment pad at the discharge of the OWTS to enhance the system's solids removal capabilities and further polish the effluent. A higher capacity depth filter is expected to be permanently installed in 1991.

In addition to the modifications discussed above, a temporary waste oil storage tank was added to the system for additional waste oil and oily sludge holding capacity. Waste oil which is removed as a result of the treatment process and oily sludge which is generated by the treatment process is normally transferred to a Separated Oil Storage Tank until removed for proper offsite disposal. However, due to low levels of radioactivity which have been quantified in accordance with plant procedures, this waste oil and oily sludge is no longer being removed for offsite disposal. Until the radiological concerns are addressed, extra storage capacity is necessary to collect the waste oil and oily sludge. Both hose connections required for this modification were wrapped with absorbent material and taped to prevent any potential leakage and secondary containment was provided for the storage tank.

Condensate Polisher Sump Modifications

Temporary sump pumps and hoses are in place in the CP sumps of both units to supplement the permanent pump capacities during secondary plant startups in order to comply with a minimum 750 gpm capacity requirement to support Hotwell level control. Although these pumps were utilized in 1989, they were not evaluated and rolled into the temporary modification program until 1990. The primary environmental concern associated with this modification is the use of

collapsible hoses; however, due to the placement of the hoses, any potential leakage will be contained in bermed areas and directed to area sumps and the proper treatment system.

Storm Drain Containment System

In 1988, STPEGS had initiated a temporary secondary containment program to prevent offsite releases of system overflows. Installation of a permanent engineered containment system was completed in October of 1990. This permanent containment system consists of three strategically located sliding gate valves which, when closed, will allow for the retention of accidental releases to the environment, thereby allowing any release which might enter the storm drain system to be recovered prior to discharge offsite.

Unit 1 Waterbox Draindown

Temporary flushing flanges were installed to allow the Unit 1 condenser waterbox to be drained to the Unit 2 Open-Loop Cooling Water (OC) System via collapsible hoses in order to support maintenance activities. This temporary modification allowed water drained from the Unit 1 waterbox to be returned to the reservoir which is the normal discharge destination. An alternate drain path was also provided for the Unit 1 Mechanical Auxiliary Building and Reactor Containment Building chillers to the Unit 2 OC system. An operational leak check on the hose was performed prior to use and periodic inspections were performed during use to check for leaks. Secondary containment was provided for all storm drains in the vicinity of the hose to prevent any potential leakage from entering the storm drain system. Maintenance activities were completed and the system returned to normal status in May of 1990.

B. Environmental Protection Plan Noncompliances

This section addresses the noncompliant environmental conditions reported to state and federal agencies in 1990. Nine noncompliances were incurred in 1990 by STPEGS, representing a reduction of 44% in the total number of reportable noncompliant environmental conditions. (Refer to Appendix D) These nine noncompliant environmental conditions were associated with STPEGS' permitted wastewater outfalls. STPEGS currently has seven active outfalls and one outfall, discharge from the Main Cooling Reservoir, not yet activated. Two of the sanitary waste outfalls, Outfalls 002 and 201, were removed from service in 1989 due to decreased capacity needs. Outfall 002 (Construction Sanitary Waste Treatment System) and Outfall 001 (Cooling Pond Discharge) are the only outfalls which discharge

directly to the Colorado River. Neither of these outfalls is currently active. A review of the corrective actions taken to achieve the aforementioned reductions follows. Efforts to address permit parameter exceedences in addition to those discussed in Section III(F) of this report have included increased monitoring, retention of independent consulting services, modifications to enhance system performance, and various actions to address the excessive oil ingress into the oily waste collection system. In addition, spill gates which act as permanent secondary containment structures to minimize the possibility of offsite releases were installed in 1990 at three locations in the storm drainage system. In 1989, parameter exceedences associated with the Oily Waste Treatment System and spurious contract laboratory results accounted for the majority of reportable conditions.

In 1990, the HL&P Central Laboratory successfully assumed all analysis responsibilities previously performed by the contract laboratories for TWC/NPDES (Texas Water Commission and National Pollutant Discharge Elimination System) permit self-reporting purposes, thereby alleviating the previous problems experienced with the contract laboratories.

Extensive efforts have continued to be devoted to identifying and correcting conditions which have contributed to occasional noncompliant operations of the Oily Waste Treatment System. A special task force was designated and assigned the responsibility of identifying recurring problems and presenting recommended solutions for the Oily Waste Treatment System. The recommendations of the task force were identified, incorporated into a detailed investigation report and actions tracked using the formal station corrective action process. Based upon the findings of this report, actions completed to date include:

- establishment of stricter administrative controls;
- more extensive education of site personnel regarding actions which might have a deleterious effect on system operations;
- installation of a trial effluent polisher filter unit;
- major equipment repairs to equipment identified as contributing significant volumes of oil;
- closer monitoring by site and consultant personnel to ensure proper chemical selection for treatment consistent with the composition of the influent wastewater; and,
- use of portable skimmers to remove oil prior to entry into the treatment system.

Outstanding items include additional equipment repairs and installation of a permanent effluent polisher system to further enhance discharge water quality. All outstanding items are scheduled for completion in 1991. These actions are anticipated to result in the continued reduction of reportable noncompliant environmental conditions in 1991. A review of the compliance data for 1990 for STPEGS indicates that significant improvement has been made in reducing parameter exceedences associated with sanitary waste facilities and the Oily Waste Treatment System which were identified as two of the most significant problem areas of 1987 and 1988. However, continued reduction of reportable noncompliant environmental conditions associated with the Oily Waste Treatment System remains a high priority for 1991. Interim and permanent installation of secondary containment measures have virtually eliminated previous problems associated with overflows of the low volume waste treatment system (Outfall 101) experienced in earlier years. STPEGS is confident that the actions described above will support the continuing trend in the reduction of the number of reportable noncompliant environmental conditions associated with wastewater discharges and ensure compliant operations of all STPEGS wastewater treatment systems.

In addition to the nine noncompliant conditions associated with the wastewater treatment outfalls reported by STPEGS to the TWC and the U.S. Environmental Protection Agency (EPA), a small number of noncompliant conditions associated with STPEGS' drinking water supply systems were identified by the Texas Department of Health (TDH) in 1990. These items were identified in two separate inspections conducted by the TDH in January and December of 1990. Five noncompliant conditions were identified in each of the two inspections. All identified conditions have either been corrected, or work is in progress to correct the conditions. Open items remaining to be completed include packing leaks on two water wells, addition of a pressure tank to the main drinking water supply system, replacement of a relief valve on the training facility drinking water supply system pressure tank, and encasement of a subterranean cut-off valve located at the training facility drinking water supply system. Corrective actions to rectify these items have been initiated and will continue in 1991.

Site inspections were also conducted at STPEGS by the TWC and the Lower Colorado River Authority (LCRA) in 1990. No items of noncompliance were noted by these agencies. (Refer to Appendix C)

C. Unreviewed Environmental Questions and Nonroutine Reports

As defined in the EPP, an unreviewed environmental question consists of "... (1) a matter which may result in a significant increase in any adverse environmental impact previously evaluated in the FES-OL, environmental impact appraisals, or in any decisions of the Atomic Safety and Licensing Board; or (2) a significant change in effluents or power level; or (3) a matter, not previously reviewed and evaluated in the documents specified in (1) of [this] Subsection, which may have a significant adverse environmental impact." Any plant design, operation, test, or experiment which may involve an unreviewed environmental question must have a nonradiological environmental evaluation performed per applicable plant procedures to determine whether such an unreviewed question is involved. Any such question would require prior Nuclear Regulatory Commission (NRC) approval. Documents determined to require prior NRC approval must be submitted to the NRC for approval in accordance with plant procedures. No such unreviewed environmental questions were identified in 1990. No nonroutine reports other than those discussed in Subsection B of this section of this report were submitted. (Refer to Appendix B)

III. Environmental Conditions

Site environmental conditions were routinely monitored by plant personnel and internally audited by both corporate and plant personnel. In addition, various state regulatory agencies inspected conditions at STPEGS during the course of 1990. Minor concerns identified during these audits are tracked to completion internally. Unless otherwise noted in this report, compliance with applicable environmental laws and regulations and site specific environmental documents was confirmed.

A. Fog Monitoring

Requirements for the STPEGS fog monitoring program to assess the impact of operation of the thermally-loaded STPEGS Main Cooling Reservoir on local meteorology are described in Section 6.2.4.2 of the Environmental Report-Operating License Stage and Section 4.2.4 of the EPP. The visual observation aspect of Phase I (pre-operational phase) of the fog monitoring program commenced June 16, 1986. Instrument data collection of Phase I commenced in May of 1987 and continued for one year collecting data prior to the August 1988 commercial operation of Unit 1. Phase II (operational phase) began June 19, 1989, upon declaration of Unit 2 commercial operation and continued for one year as required. The fog monitoring program results were

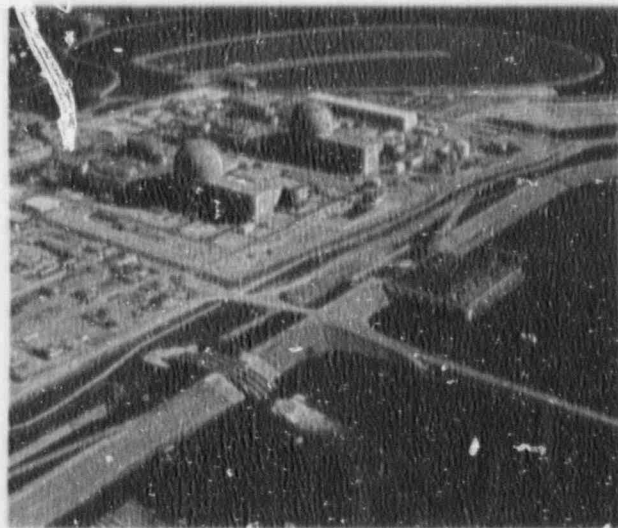
transmitted to the Nuclear Regulatory Commission in October of 1990. The report concluded that no significant increase in fog occurrence has resulted from the presence of the operational Main Cooling Reservoir from that predicted previously in the STPEGS Updated Final Safety Analysis Report

B. Aquatic Monitoring

No aquatic monitoring was required by the EFA or the state of Texas under the authority of the Clean Water Act for the time period of this report.

C. Main Cooling Reservoir

Under normal plant operating conditions, cooling water for the plant is diverted from and returned to the Main Cooling Reservoir (MCR). The MCR is a 7,000 acre, above grade, off-channel reservoir impounding 202,600 acre-feet of water at a maximum operating level of 49 feet MSL. Reservoir

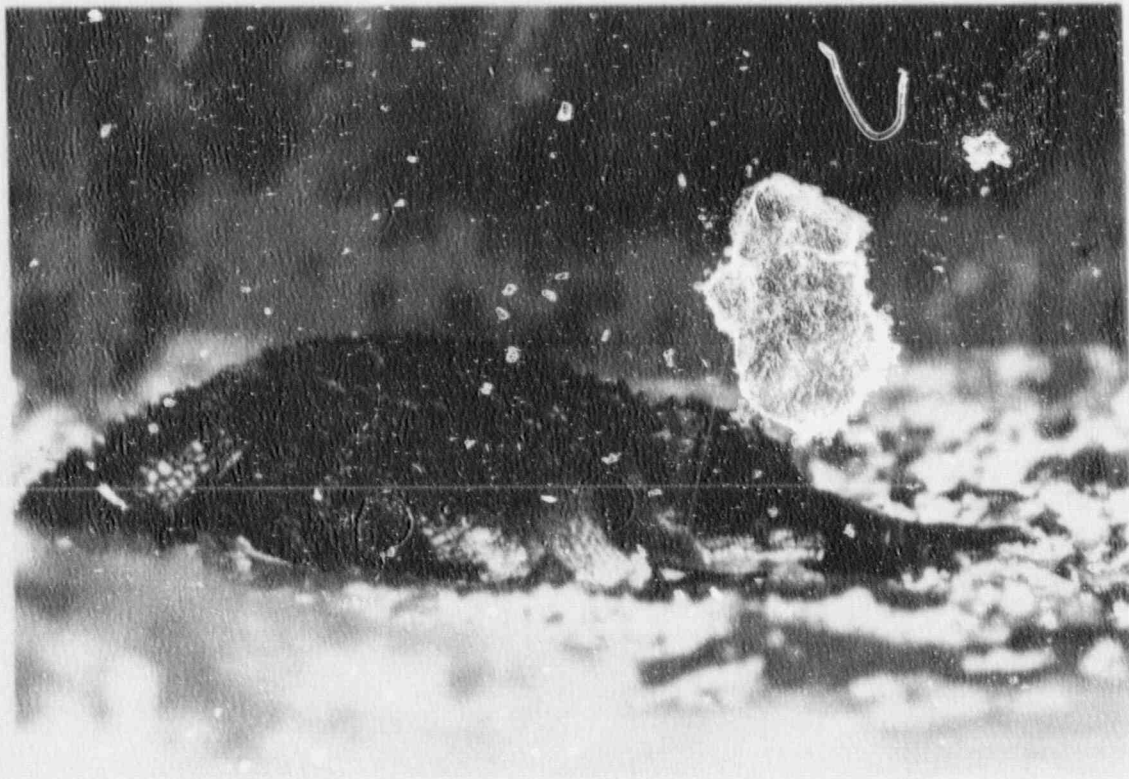


makeup water is withdrawn intermittently from the adjacent Colorado River. The ultimate heat sink is the Essential Cooling Pond (ECP) which is a 49.2 acre, below grade, off-channel reservoir impounding 388 acre-feet of water at a maximum operating level of 26 feet MSL. Water right Permit No. 3233, issued by the Texas Water

Rights Commission (predecessor to the TWC) authorizes the maintenance of these reservoirs, impoundment of water diverted from the Colorado River in the reservoirs, and circulation, diversion, and use of water from the reservoirs for industrial purposes in the operation of the plant. This permit limits the rate of diversion from the Colorado River. Other documents describing STPEGS water rights include Certificate of Adjudication 14-5437 issued by the TWC, Contractual Permit No. CP-327, and contracts between HL&P and the LCRA. Approximately 35,646 acre-feet of surface water were diverted from the Colorado River in 1990 for MCR fill operations and the highest MCR elevation for 1990 was 45 feet which is the normal operating level. The condition of the MCR was satisfactory and unchanged during 1990.

D. Ecological Monitoring

The STPEGS location falls within the Texas Land Resource Area designation as coastal prairie and can be divided into two broad ecological areas based on topography, soils, and vegetation. The bottomland area is a swampy, marshy area which occupies approximately nine percent of the total site near the Colorado River. This area provides an important habitat for birds and herptiles. A spoil impoundment constructed in 1972 by the U.S. Army Corps of Engineers is included in this area. The upland area comprises the remaining ninety percent of the site and offers limited habitat for mammals and several groups of birds. Site and corporate personnel regularly monitor the site environs for changing conditions.



A cold weather period in late 1989 and early 1990 resulted in some mortalities in the fish population in the MCR and some alligators on site in spite of measures taken by site personnel to provide protection from the elements. Ecological conditions onsite in 1990 remained unchanged and satisfactory.

E. Air Quality

Air emission sources at STPEGS fall under the scope of air pollution regulations promulgated under both the Texas Clean Air Act and the Federal Clean Air Act and its numerous amendments, the purpose of which is to safeguard air resources from pollution by controlling or abating air pollution and emissions.

STPEGS utilizes two oil-fired auxiliary steam boilers to furnish steam for deaerator startup, the turbine gland seals, and waste processing when steam is not available from the nuclear steam supply. The auxiliary boilers are permitted to operate under EPA Permit No. PSD-TX-209 and Texas Air Control Board (TACB) Permit No. R-7410. Neither of the two units were operated in 1990; however, due to significant operational problems associated with the two permanent boilers, a temporary replacement unit was utilized briefly for three days in December of 1990 to support startup of Unit 2 following a major outage. The TACB was informed of the use of the replacement unit as provided for in Texas Air Control Board Standard Exemption No. 111.

In addition to the two auxiliary steam boilers at STPEGS, there are twelve diesel generators located onsite designed to provide emergency power to various plant systems in the event of loss of power. These generators are exempt from TACB licensing under Standard Exemption No. 5 for internal combustion engine driven generator sets used only for emergency service.

STPEGS conducts onsite training of selected employees on proper fire-fighting techniques. Most onsite instruction consists of training on the proper use of a fire extinguisher. Advance notification of firefighting training sessions is provided to the Matagorda County Health Department and the TACB. In addition in 1990, verbal notification was made to the TACB concerning a fuel truck which exploded and burned on site while re-fueling a contractor's storage tank. The fire was quickly extinguished. An internal investigation was conducted using the formal station corrective action and investigation process. No follow-up report was required by the TACB.

Advanced notification is also provided to the TACB of the scheduled demolition of buildings onsite. These buildings are inspected for the presence of asbestos prior to demolition. These regulations are found in the EPA National Emission Standards for Hazardous Air Pollutants. Demobilization of construction phase structures at STPEGS progressed in 1990. Asbestos surveys conducted in 1990 in

accordance with EPA regulations revealed no asbestos present.

F. Water Quality

Water usage and wastewater treatment at STPEGS are regulated under the federal Safe Drinking Water Act, the Clean Water Act, and the Texas Water Quality Acts with the collective purpose of safeguarding public drinking water supplies and maintaining the integrity of state and federal waters. STPEGS utilizes surface water and groundwater for industrial uses and to supply onsite drinking water. Surface water usage has been discussed earlier in this report in Section IIIC. In addition to cooling water for plant activities supplied by surface water, groundwater is supplied by four onsite water wells. These wells supply potable water for the plant, makeup water for the Essential Cooling Pond, service water, firewater, and water for other onsite industrial uses. Ground and surface water use reports are submitted annually to the TWC.

Discharges from onsite wastewater treatment systems are authorized in TWC Permit No. 01908 and NPDES Permit No. TX0064947 issued by the EPA. The Colorado River is the designated receiving stream. Effluent data reports are prepared and submitted monthly to the TWC and the EPA. As discussed earlier in Section IIB, STPEGS has eight wastewater discharge outfalls, one of which, the MCR discharge, has not yet been activated. Only two of the outfalls, Outfalls 001 and 002, discharge directly to the Colorado River. All other outfalls discharge to the Main Cooling Reservoir. A description of each outfall follows.



Outfall 001 (Cooling Pond Discharge)

The STPEGS cooling pond discharge system transports water by gravity from the MCR to the Colorado River. Although Outfall 001 has not yet been activated, one reportable noncompliant condition occurred in 1990. A release occurred in 1990 when one of four motor-driven spillway gates was inadvertently raised. No adverse impact to the receiving waterway was observed. Locking devices were installed and power supplies locked out to prevent any further inadvertent actuations.

Outfall 002 (Construction Sanitary Waste Treatment System)

Outfall 002 represents a 60,000 gallon per day capacity sewage treatment facility which discharges to a tidal segment of the lower Colorado River. Effluent is chlorinated prior to discharge in accordance with the applicable permit requirements. Late in 1989, as capacity needs decreased, this treatment system was removed from service. No reportable noncompliant environmental conditions occurred in 1990.

Outfall 101 (Neutralization Basin)

The neutralization basin is a low volume waste treatment system which collects nonradioactive liquid waste consisting primarily of demineralizer regenerate, as well as the effluent from Outfall 501, for treatment prior to discharge to the MCR. Outfall 101 influent is neutralized and batch-released to the cooling pond. There were no reportable noncompliant environmental conditions in 1990 associated with this outfall.

Outfall 201 (Oily Waste Treatment System)

Outfall 201 represents an approximately 15,000 - 30,000 gallon per day capacity floor drainage treatment facility which discharges to the STPEGS cooling pond. Small amounts of oily wastewater from normal equipment leakage is processed and effluent is pumped to the MCR while separated oil is transferred to a storage tank for offsite disposal.

Aggressive efforts in 1990 which included consultant field testing, media filter installation, and reduction of oil ingress to the system to address permit parameter exceedences experienced in 1989 resulted in a 33% decrease in reportable noncompliant environmental conditions associated with Outfall 201. There were six reportable conditions in 1990 which resulted from three separate events. Unusually high oily waste loading on the treatment

system coupled with a significant rainfall event resulted in one oil & grease permit maximum limit and the TSS and oil & grease daily averages being exceeded. An oil & grease maximum limit was exceeded in a second event when wastewater containing an unusually high concentration of emulsified oil was processed following a heavy rainfall. On a third occasion, an oil & grease and a TSS maximum limit were exceeded when a change in the oily wastewater composition entering the system rendered the chemical polymer treatment in use ineffective. Chemical treatment was adjusted and the system returned to compliant operations. Actions discussed earlier in Section II (B) resulted in significant improvement in effluent quality in 1990.

Outfall 301 (East Sanitary Waste Treatment System)

The East Sanitary Waste Treatment System is a 15,000 gallon per day capacity sewage treatment facility which discharges to the MCR. This treatment system was removed from service in mid-1989 due to decreased capacity needs. No reportable noncompliant environmental conditions were associated with Outfall 301 in 1990.

Outfall 401 (West Sanitary Waste Treatment System)

The West Sanitary Waste Treatment System is a 60,000 gallon per day sewage treatment facility which discharges to the MCR. A bypass occurred in 1990 when the effluent tank was inadvertently allowed to overflow. This was the only reportable noncompliant environmental condition associated with Outfall 401 in 1990.

Outfall 501 (Metal Cleaning Waste)

Prior to initial startup of the plant, various piping and equipment were subjected to flushing and chemical cleaning. This water was collected in the organics basin and routed to the neutralization basin (Outfall 101) for treatment, after applicable iron, copper, and pH requirements were satisfied, and ultimately discharged to the MCR. No reportable noncompliant environmental conditions were associated with this outfall in 1990.

Outfall 601 (Training Facility Sanitary Waste Treatment System)

The Outfall 601 sewage treatment facility is a 15,000 gallon per day capacity unit which discharges to the MCR. Currently, this facility services only the site training building.

Only one reportable noncompliant environmental condition was associated with Outfall 601 in 1990 when the TSS permit daily maximum limit was exceeded. No cause was determined for this event. All previous and subsequent monitoring results and analyses indicated that the system was otherwise operating within permit limitations.

G. Solid Waste Management

Nonradioactive wastes which are generated at STPEGS are regulated primarily by the EPA under the Resource Conservation and Recovery Act and its amendments and by the TWC under the Texas Solid Waste Disposal Act which control the collection, handling, storage, and disposal of solid wastes including hazardous wastes. STPEGS is registered with the TWC as a generator of industrial solid wastes. TWC regulations require that all industrial solid wastes generated at STPEGS be identified to the TWC. These wastes are identified in the TWC Notice of Registration No. 30651 issued for STPEGS. The registration is revised whenever there is a change in waste management practices at the facility.

Solid waste activities during 1990 included the shipment of 53,156 gallons of waste oil for recycle, 794 drums of nonhazardous waste for disposal, 64,856 gallons of nonhazardous wastewater for deepwell injection from a cleaning project, one PCB transformer and one PCB-contaminated transformer for disposal, and 105 drums of hazardous waste for disposal. The Annual Waste Summary submitted to the Texas Water Commission documents and summarizes STPEGS' waste handling and disposal activities for 1990. In addition to the aforementioned waste shipments, STPEGS operates an onsite Class III landfill as specified on STPEGS' TWC Solid Waste Registration No. 30651.

STPEGS currently has three emergency diesel underground storage tanks (UST's). Regulation of UST systems associated with emergency generator systems at nuclear power plants such as the aforementioned UST's at STPEGS has been deferred with the exception of corrective action requirements and interim prohibitions. In November of 1990, after proper notification to the TWC, five UST's previously in use at the construction phase fuel island were removed after a new fuel island with above ground storage tanks was placed into service. Three groundwater monitoring wells were established in December to further assess the extent of hydrocarbon contamination found during closure activities. Remediation plans and activities will continue to be developed and implemented in 1991.

STPEGS conducted site wide inspections to identify and record all hazardous products and chemicals onsite as required by the Superfund Amendment and Reauthorization Act (SARA) and the Texas Hazard Communication Act. One hundred ninety-eight products and chemicals were determined to be present onsite in sufficient quantities to report. Two of the chemicals, ammonium hydroxide and hydrazine are designated as extremely hazardous substances (EHS) under the SARA. Annual reports are submitted by March 1 for the preceeding calendar year to the Texas Department of Health.

IV. Conclusion

STPEGS continues to strive towards leadership in environmental protection. In keeping with the stated corporate commitment to compliance with all applicable environmental laws, STPEGS has initiated a strenuous environmental compliance program utilizing site procedures, bulletins, training, internal inspections and audits, and formal and informal communications in order to remain a leader within the environmental field. (Refer to Appendix A) In a changing regulatory arena of ever increasing complexity, STPEGS is facing the environmental challenges of today and is prepared to meet the environmental challenges of tomorrow.



Appendix A

HL&P Environmental Compliance Policy Statement

HOUSTON LIGHTING & POWER COMPANY

ENVIRONMENTAL COMPLIANCE

POLICY STATEMENT

Numerous laws governing environmental matters require compliance by Houston Lighting & Power Company in the daily conduct of business. The requirements of these laws are expressed through regulations, as well as conditions to federal, state, and local permits issued for construction and operation of HL&P facilities. It is the policy of Houston Lighting & Power Company to comply with all applicable environmental laws while fulfilling the responsibility of providing adequate and reliable electric service.

This policy affirms the standing corporate commitment to this objective. In fulfillment of this policy, all personnel charged with the design, construction, maintenance, and operation of HL&P's facilities shall ensure that those facilities achieve and maintain compliance with applicable environmental requirements.

All employees are to provide the necessary cooperation for the fulfillment of this policy.


D. D. Jordan
Chairman of the Board &
Chief Executive Officer

March 16, 1983

Date

Appendix B
Notification Letters

Houston Lighting & Power Company

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STP/RMS (1)
File: STP 170

WASTEWATER PERMIT EXCEEDENCE NO

DATE: January 24, 1990

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ST-HL-FD-322, ST-HL

TO: Mr. Myron O. Knudson, P.E.
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NPOES PERMIT NO.: TX0006497

TWC PERMIT NO.: 01908

FACILITY NAME: South Texas Project

EXCEEDENCE TYPE: MAXIMUM MINIMUM OVERFLOW ☒ OTHER

EXCEEDENCE DATE: 01/22/90

OUTFALL NO. & DESCRIPTION: 401 West Sanitary Waste Treatment System

PARAMETER: N/A

PERMIT LIMIT: N/A

SAMPLE RESULT: N/A

CAUSE OF EXCEEDENCE/ACTION TAKEN/CURRENT STATUS:

On January 22, 1990, one of two effluent pumps was out of service for maintenance at the west sanitary waste treatment facility. The other effluent pump was temporarily placed in off and inadvertently left in this position. The effluent tank filled and a volume not exceeding 200 gallons of treated sanitary wastewater overflowed to the yard drainage system. The overflow was immediately halted upon discovery and the system was returned to normal operations. Subsequent monitoring by plant personnel indicated no adverse impact to the environment.

SSD/plm/E_STP1

RESPONSIBLE OFFICIAL: (Name/Title)

EDWARD A. FEITH, DIVISION MANAGER
ENVIRONMENTAL DEPARTMENT

SIGNATURE:

Edward A. Feith

PHONE NO.:

(713) 922-2205

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas

March 12, 1990

ST-HL-TX-771

ST-HL-FD-324

U
bcc: D. P. Hall
C. E. Vaughn
S. L. Rosen
R. W. Chewing
W. H. Kinsey
W. F. McGuire
E. A. Feith
J. R. Lovell
H. A. McBurnett
R. A. Gangluff
S. L. Dannhardt
J. Tapia (NRC)
R. D. Martin (NRC)
B. W. Taylor
STP/RMS (1)
File: (STP 170)

Mr. Myron O. Knudson, P.E.
Water Management Division (6W)
U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

Mr. Allen P. Beinke, Jr.
Executive Director
Texas Water Commission
P. O. Box 13087
Capitol Station
Austin, TX 78711

RE: SOUTH TEXAS PROJECT
NPDES Permit No. TX0064947
TWC Permit No. 01908

Gentlemen:

Laboratory analyses performed on wastewater discharge samples collected from Outfall 201 on February 26, 1990, yielded an Oil & Grease result of 31.5 mg/l which exceeds the permit limit of 20.0 mg/l. It has been determined that the exceedence resulted from unusually high oily waste loading on the treatment system from plant equipment leaking oil and from runoff following a significant rainfall event. The leaking equipment is being repaired and treatment system operation will be closely monitored while plant personnel evaluate modifications which could be implemented to improve treatment system performance. No adverse impact to the receiving system is anticipated as a result of this exceedence.

Should you have any question regarding this matter, please contact Mr. G. P. Fisseler at (713) 922-2202.

Sincerely,



Stephen S. Davies, P.E.
Manager, Water and Ecological
Resources Division
Environmental Department

GPF:cas

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas

March 29, 1990
ST-HL-TX-773
ST-HL-FD-326

G. E. Vaughn
S. L. Rosen
R. W. Chewing
W. H. Kinsey
W. F. McGuire
E. A. Feith
J. R. Lovell
M. A. McBurnett
R. A. Gangluff
S. J. Dannhardt
J. Tapia (NRC)
R. D. Martin (NRC)
B. W. Taylor
STP/RMS (1)
STP PFN G24.02/G23.01
File: (STP 170)

Mr. Myron O. Knudson, P.E.
Water Management Division (6W)
U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

Mr. Allen P. Beinke, Jr.
Executive Director
Texas Water Commission
P. O. Box 13087
Capitol Station
Austin, TX 78711

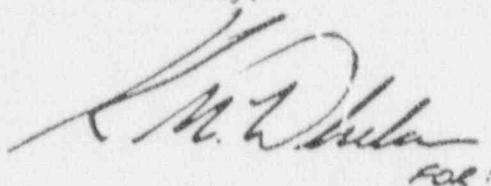
RE: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
OUTFALL 601 - TRAINING FACILITY SEWAGE TREATMENT SYSTEM
NPDES Permit No. TX0064947, TWC Permit No. 01908

Gentlemen:

Laboratory analyses performed on wastewater discharge samples collected from Outfall 601 on March 20, 1990, yielded a daily maximum total suspended solids (TSS) result of 59 mg/l. This value exceeds the permit limitation of 45 mg/l. The cause of the indicated elevated TSS is presently unknown. Other compliance monitoring results for this date indicate that the system was operating within permit limitations. System operation will continue to be closely monitored to avert additional upsets. No adverse impact to the receiving water is anticipated from this discharge which enters the plant cooling reservoir.

Should you have any question regarding this matter, please contact Mr. G. P. Fisseler at (713) 922-2202.

Sincerely,



Stephen S. Davies, P.E.
Manager, Water and Ecological
Resources Division
Environmental Department

GPF/KMW/cas:c

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas

July 24, 1990

ST-HL-TX-794

ST-HL-FD-329

G. E. Vaughn
S. L. Rosen
R. W. Chewing
W. H. Vinsey, Jr.
W. F. McGuire
E. A. Feith
J. R. Lovell
M. A. McBurnett
R. A. Gangluff
S. L. Dannhardt
J. Tapia (NRC)
R. D. Martin (NRC)
B. W. Taylor
STP/RMS (1)
STP PFN G24.02/G23.01
File: (STP 170)

CERTIFIED MAIL

Mr. Myron O. Knudson, P. E.
Water Management Division (6W)
U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

Mr. Allen P. Reinke, Jr.
Executive Director
Texas Water Commission
P. O. Box 13087
Capitol Station
Austin, TX 78711

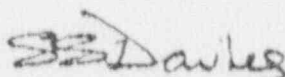
RE: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
OUTFALL 001 - MAIN COOLING RESERVOIR
NPDES Permit No. TX00064947, TWC Permit No. 01908

Gentlemen:

On July 19, 1990, approximately 7.3 million gallons of cooling water were released during a ninety-minute period through the main cooling reservoir spillway at the South Texas Project and entered the Colorado River. The release occurred when one of the four motor-driven spillway gates was inadvertently raised. Upon discovery, the motor drive was disengaged and the gate was manually cranked closed. All four gates have been locked in their closed positions until the cause of the gate opening can be fully investigated. A sample of the released water was collected and yielded a pH of 8.39, a total residual chlorine (TRC) result of less than 0.05 ppm, and a temperature of 28°C. No adverse impact to the receiving stream is anticipated.

Should you have any question regarding this matter, please contact Mr. G. P. Fisseler at (713) 922-2202.

Sincerely,



Stephen S. Davies, P. E.
Manager, Water and Ecological
Resources Division
Environmental Department

CPF/cas.g

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas 7725

August 2, 1990
ST-HL-TX-796
ST-HL-FD-330
PFN G23.01/G24.02

bcc: D. P. Hall
W. H. Kinsey, Jr.
S. L. Rosen
R. W. Chewing
W. F. McGuire
E. A. Feith
J. R. Lovell
M. A. McBurnett
R. A. Gangluff
S. L. Dannhardt
J. Tapia (NRC)
R. D. Martin (NRC)
B. W. Taylor
STP/RMS (2)
File: (STP 170)

CERTIFIED MAIL

Mr. Myron O. Knudson, P. E.
Water Management Division (6W)
U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

Mr. Allen P. Beinke, Jr.
Executive Director
Texas Water Commission
P. O. Box 13087
Capitol Station
Austin, TX 78711

RE: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
NPDES Permit No. TX0064947
TWC Permit No. 01908

Gentlemen:

Laboratory analyses performed on wastewater discharge samples collected from Outfall 201 on July 24, 1990, yielded an Oil & Grease result of 25.1 mg/l which exceeds the permit limit of 20.0 mg/l. It has been determined that the exceedence resulted when wastewater containing unusually high concentrations of emulsified oil was processed following a heavy rainfall event and system maintenance activities. Plant personnel will closely monitor treatment system operation. No adverse impact to the receiving water body is anticipated as a result of this exceedence.

Should you have any question regarding this matter, please contact Mr. G. P. Fisseler at (713) 922-2202.

Sincerely,



Stephen S. Davies, P. E.
Manager, Water and Ecological
Resources Division
Environmental Department

GPF/cas.g

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas 77251

August 22, 1990
ST-HL-TX-805
ST-HL-FD-331
PFN G23.01/G24.02

W. H. Kinsey, Jr.
S. L. Rosen
R. W. Chewing
W. F. McGuire
E. A. Feith
J. R. Lovell
M. A. McBurnett
R. A. Gangluff
S. L. Dannhardt
J. Tapia (NRC)
R. D. Martin (NRC)
B. W. Taylor
STP/RMS (2)
File: (STP 170)

CERTIFIED MAIL

Mr. Myron O. Knudson, P. E.
Water Management Division (6W)
U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

Mr. Allen P. Beinke, Jr.
Executive Director
Texas Water Commission
P. O. Box 13087
Capitol Station
Austin, TX 78711

RE: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
NPDES Permit No. TX0064947
TWC Permit No. 01908

Gentlemen:

Laboratory analyses performed on wastewater discharge samples collected from the Oily Waste Treatment System (Outfall 201) on August 12, 1990, yielded an Oil & Grease result of 50.3 mg/l and a Total Suspended Solids result of 109 mg/l which exceed the permit limits of 20.0 mg/l and 100 mg/l, respectively. Plant personnel have determined that changes in the oily wastewater composition reduced the effectiveness of the chemical polymer used in this treatment system. Corrective actions are underway to restore effective chemical treatment of the wastewater. Plant personnel will closely monitor the operation of the treatment system. No adverse impact to the receiving water body is anticipated as a result of these exceedences.

Should you have any question regarding this matter, please contact Mr. G. P. Fisseler at (713) 922-2202.

Sincerely,



Stephen S. Davies, P. E.
Manager, Water and Ecological
Resources Division
Environmental Department

GPF/cas.g

Appendix C
Agency Inspection Reports



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

March 13, 1990

1100 West 49th Street
Austin, Texas 78756-3199
(512) 458-7111

Robert A. MacLean, M.D.
Deputy Commissioner
Professional Services

Hermas L. Miller
Deputy Commissioner
Management and Administration

Mr. Fred McGuire, Environmental Manager
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

Subject: Public Drinking Water Supply
South Texas Nuclear Project - Training Facility
I.D. #1610103
Matagorda County, Texas

Dear Mr. McGuire:

On January 17, 1990, our representative, Matthew Chun, R. S., in company with Gene Fisseler, Breck Sacra, Peggy Travis, Ken Cunningham, and Thomas Strochein, made a sanitary survey of the subject water system. As a result of this survey, your attention is directed to the following items of noncompliance with State Statutes and this Department's regulations.

1. The chlorination facilities must be operated so as to maintain a free chlorine residual of 0.2 mg/l in the far reaches of the distribution system at all times.
2. The roof hatch on the ground storage tank must be kept locked at all times to prevent any contamination from entering the water supply from outside sources.
3. The area near the pressure tank must be fine graded so that the site is free from depressions, reverse grades or areas too rough for proper ground maintenance so as to assure that surface water will drain away from the site.

In conclusion, we wish to express our thanks and appreciation for the courtesies extended during the survey. Should clarification of this letter be required or if we may be of other assistance, please contact our Region 4 office at 10500 Forum Place Dr., Second Floor, Houston, Texas 77036, phone number 713-995-1889.

Very truly yours,

Mark V. Lowry
Mark V. Lowry, P.E.
Regional Director of Environmental
and Consumer Health Protection

MVL/MC/kj

ccs: Matagorda Co. Health Dept.
Region 4



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

March 13, 1990

1100 West 49th Street
Austin, Texas 78756-3199
(512) 458-7111

Robert A. MacLean, M.D.
Deputy Commissioner
Professional Services

Hermas L. Miller
Deputy Commissioner
Management and Administration

Mr. Fred McGuire, Environmental Manager
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

Subject: Public Drinking Water Supply
South Texas Nuclear Project - Main Plant
I.D. #1610051
Matagorda County, Texas

Dear Mr. McGuire:

On January 17, 1990, our representative, Matthew Chun, R.S., in company with Gene Fisseler, Breck Sacra, Peggy Travis, Ken Cunningham, and Ed Walden III, made a sanitary survey of the subject water system. As a result of this survey, your attention is directed to the following items of noncompliance with State Statutes and this Department's regulations:

1. The storage reservoirs must be provided with a roof access opening. The primarily used roof access opening shall not be less than 30 inches in diameter. Each access opening shall have a raised curbing of at least 4 inches in height and shall be provided with a cover that overlaps and terminates in a downward direction for at least 2 inches with arrangements for keeping it locked in place. This should be accomplished when the tanks are out of service for repair.
2. ~~The storage reservoirs must be provided with access ladders to permit routine inspections of the reservoirs.~~

In conclusion, we wish to express our thanks and appreciation for the courtesies extended during the survey. Should clarification of this letter be required or if we may be of other assistance, please contact our Region 4 office at 10500 Forum Place Dr., Second Floor, Houston, Texas 77036, phone number 713-995-1889.

Very truly yours,

Mark V. Lowry
Mark V. Lowry, P.E.

Regional Director of Environmental
and Consumer Health Protection

MVL/MC/ne

ccs: Matagorda Co. Health Dept.
Region 4



Lower Colorado River Authority

Post Office Box 220 Austin, Texas 78767 • (512) 473-3200

February 19, 1990

Mr. ~~W. F. McGuire~~, Manager
Environmental ~~Protection~~ Dept.
Houston Lighting and Power Company
P. O. Box 1700
Houston, Texas 77001

Dear Mr. McGuire:

Please find enclosed a Laboratory Report and Sampling & Inspection Form from the Lower Colorado River Authority (LCRA) sampling of your wastewater treatment facility(s) during the month of January, 1990. Please note that each occasion where our sampling indicated your facility did not comply with applicable single grab limits set by the Texas Water Commission (TWC) is highlighted in yellow. If there are no highlighted values, your facility was in compliance with the TWC permit at the time of sampling.

Should you require further information, or wish to discuss any of the sampling results, please call me at (512) 473-3372.

Sincerely,

A handwritten signature in dark ink, appearing to read "C. Kovorsky", is written over the word "Sincerely,".

Charles F. Kovorsky
Water Quality Surveillance &
Enforcement

CFD:dfp

Enclosure

RECEIVED

FEB 23 1990

E. A. FEITH



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9002330
FACILITY: WQSTP
ACCT NO: 15825000000BCC000V24001 STP
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 02/19/90
DATE RECEIVED: 01/18/90

SAMPLE DATE: 01/18/90
SAMPLE TIME: 0915
DEPTH:

LOCATION ID: 423 STEP WESTSIDE

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	19	mg/L	00530	
pH, Laboratory	7.47	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

Accredited for Environmental Testing
by The American Association for
Laboratory Accreditation





Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9002329

SAMPLE TYPE: STP

DATE REPORTED: 02/19/90

FACILITY: WQSTP

DATE RECEIVED: 01/18/90

ACCT NO: 15825000000BCC000V24001 STP
LCRA

SAMPLE DATE: 01/18/90

SAMPLE TIME: 0845

DEPTH:

LOCATION ID: 424 STEP TRAINING

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	9	mg/L	00530	
pH, Laboratory	8.01	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

2

Accredited for Environmental Testing
by The American Association for
Laboratory Accreditation



3622

SAMPLE NUMBER	TIME	TEMP. (°C)	D.O. (MG/L)	pH (S U)	COND. (µMHOS)	TOTAL Cl- (MG/L)	SAMPLE LOCATION/TYPE
2	0845	20.2	9.2	7.4	1363	0.9	Post Creek fault

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
2	light blue / clear	None		

OBSERVATIONS/NOTES:



Lower Colorado River Authority

Post Office Box 220 Austin, Texas 78767 • (512) 473-3200

March 19, 1990

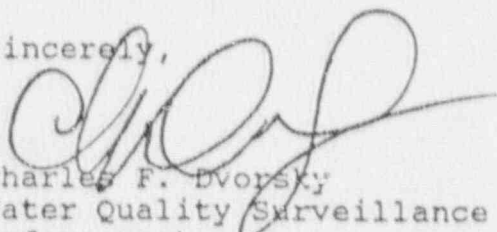
Mr. E.A. Feith, Manager
Environmental Dept.
Houston Lighting and Power Company
P. O. Box 1700
Houston, Texas 77251

Dear Mr. Feith:

Please find enclosed a Laboratory Report and Sampling & Inspection Form from the Lower Colorado River Authority (LCRA) sampling of your wastewater treatment facility(s) during the month of February, 1990. Please note that each occasion where our sampling indicated your facility did not comply with applicable single grab limits set by the Texas Water Commission (TWC) is highlighted in yellow. If there are no highlighted values, your facility was in compliance with the TWC permit at the time of sampling.

Should you require further information, or wish to discuss any of the sampling results, please call me at (512) 473-3372.

Sincerely,



Charles F. Evorsky
Water Quality Surveillance &
Enforcement

CFD:dfp

Enclosure

RECEIVED

MAR 27 1990

E. A. FEITH

~~EAF~~
~~SSD~~
~~GDF~~
File
BP 185



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9002736
FACILITY: WQSTP
ACCT NO: 15825000000BCC000V24001 STP
LCRA

DATE REPORTED: 02/28/90
DATE RECEIVED: 02/16/90

SAMPLE DATE: 02/16/90
SAMPLE TIME: 0930
DEPTH:

LOCATION ID: 423 STEP WESTSIDE

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	<3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	11	mg/L	00530	
pH, Laboratory	7.24	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

3

Accredited for Environmental Testing
by The American Association for
Laboratory Accreditation



3837

SAMPLE NUMBER	TIME	TEMP (°C)	D.O. (MG/L)	pH (S.L.)	COND. (µMHOS)	TOTAL C1- (MG/L)	SAMPLE LOCATION/TYPE
3	0930	19.6	7.6	7.6	1142	6.0	Post C.C.C. Final Eff

SAMPLE NUMBER	SAMPLE COLOR/CLEARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
3	amber/clear	None		

Form 1145 5/87



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9002735
FACILITY: WQSTP
ACCT NO: 15825000000BCC000V24001 STP
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 02/28/90
DATE RECEIVED: 02/16/90

SAMPLE DATE: 02/16/90
SAMPLE TIME: 0900
DEPTH:

LOCATION ID: 424 STEP TRAINING

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	<3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	5	mg/L	00530	
pH, Laboratory	7.47	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER



3836

SAMPLE NUMBER	TIME	TEMP. (°C)	D.O. (MG/L)	pH (S.U.)	COND. (µMHOS)	TOTAL Cl. (MG/L)	SAMPLE LOCATION/TYPE
✓	0900	15.8	9.6	8.1	1301	20	Post office fineliff

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
2	None/clear	None		

OBSERVATIONS/NOTES:



Lower Colorado River Authority

Post Office Box 220 Austin, Texas 78767 • (512) 473-3200

April 23, 1990

Mr. E.A. Feith, Manager
Environmental Dept.
Houston Lighting and Power Company
P. O. Box 1700
Houston, Texas 77251

Dear Mr. Feith:

Please find enclosed a Laboratory Report and Sampling & Inspection Form from the Lower Colorado River Authority (LCRA) sampling of your wastewater treatment facility(s) during the month of March, 1990. Please note that each occasion where our sampling indicated your facility did not comply with applicable single grab limits set by the Texas Water Commission (TWC) is highlighted in yellow. If there are no highlighted values, your facility was in compliance with the TWC permit at the time of sampling.

Should you require further information, or wish to discuss any of the sampling results, please call me at (512) 473-3372.

Sincerely,

A handwritten signature in dark ink, appearing to read "C. Dvorsky", is written over the typed name.

Charles F. Dvorsky
Water Quality Surveillance &
Enforcement

CFD:dfp

Enclosure

RECEIVED

APR 30 1990

E. A. FEITH

EAF
SSD
Gene
BUT File
File:
STP 18



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9003091
FACILITY: WQSTP
ACCT NO: 15825000000BCC000V24001 STP
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 03/28/90

DATE RECEIVED: 03/22/90

SAMPLE DATE: 03/22/90

SAMPLE TIME: 0920

DEPTH:

LOCATION IS: 424 STEP TRAINING

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	4	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	9	mg/L	00530	
pH, Laboratory	8.78	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

27

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Laboratory Accreditation



4944

SAMPLE NUMBER	TIME	TEMP. (°C)	D.O. (MG/L)	pH (S.U.)	COND. (μ /MHOS)	TOTAL Cl. (MG/L)	SAMPLE LOCATION/TYPE
3	0920	19.5	9.2	8.2	1235	1.0 rup 1.0	Post Circ. Final eff

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
3	Hamber / Lt pink floc	None		



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9003090
FACILITY: WQSTP
ACCT NO: 15825000000BCC00CV24001 STP
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 03/28/90

DATE RECEIVED: 03/22/90

SAMPLE DATE: 03/22/90

SAMPLE TIME: 0900

DEPTH:

LOCATION ID: 423 STEP WESTSIDE

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	<3	mg/L	00310	
Coliform, Fecal	2	/100 ml	31616	#colonies below ideal plate count
Residue, Nonfilt-TSS	15	mg/L	00530	
pH, Laboratory	7.80	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

26

Accredited for Environmental Testing
by The American Association for
Laboratory Accreditation



4943

SAMPLE NUMBER	TIME	TEMP. (°C)	DO (MG/L)	pH (S.U.)	COND. (µMHOS)	TOTAL Cl- (MG/L)	SAMPLE LOCATION/TYPE
2	0400	20.0	8.2	7.2	1376	2.9	Port C. R. C. fin. left

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
2	Light green / clear	None	60 GPM	

OBSERVATIONS/NOTES:



Lower Colorado River Authority

Post Office Box 220 Austin, Texas 78767 • (512) 473-3200

May 22, 1990

SSD
GPT
SEM File
STP 185

Mr. E.A. Feith, Manager
Environmental Dept.
Houston Lighting and Power Company
P. O. Box 1700
Houston, Texas 77251

Dear Mr. Feith:

Please find enclosed a Laboratory Report and Sampling & Inspection Form from the Lower Colorado River Authority (LCRA) sampling of your wastewater treatment facility(s) during the month of April, 1990. Please note that each occasion where our sampling indicated your facility did not comply with applicable single grab limits set by the Texas Water Commission (TWC) is highlighted in yellow. If there are no highlighted values, your facility was in compliance with the TWC permit at the time of sampling.

Should you require further information, or wish to discuss any of the sampling results, please call me at (512) 473-3372.

Sincerely,

A handwritten signature in dark ink, appearing to read "C. Dvorsky", is written over the typed name.

Charles F. Dvorsky
Water Quality Surveillance &
Enforcement

CFD:dfp

Enclosure

5254

SAMPLE NUMBER	TIME	TEMP. (°C)	D.O. (MG/L)	pH (S.U.)	COND. (µMHOS)	TOTAL Cl. (MG/L)	SAMPLE LOCATION/TYPE
1	0900	20.9	9.3	7.3	1290	1.5	Part Cies, first left

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
1	orange / mid cloudy	None		

OBSERVATIONS/NOTES:



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9003445
FACILITY: WQSTP
ACCT NO: 15825000000BCF000V24000
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 04/26/90

DATE RECEIVED: 04/19/90

SAMPLE DATE: 04/19/90

SAMPLE TIME: 0900

DEPTH:

LOCATION ID: 424 STEP TRAINING

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
-----	-----	-----	-----	-----
BOD 5	3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	12	mg/L	00530	
pH, Laboratory	6.72	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER

16

Accredited for Environmental Testing
by The American Association for
Laboratory Accreditation



5255

SAMPLE NUMBER	TIME	TEMP. (°C)	D.O. (MG/L)	pH (S.U.)	COND. (μMHOS)	TC, ALCl. (MG/L)	SAMPLE LOCATION/TYPE
L	0920	23.0	7.9	7.5	1028	6.5	Post cica. fin. left

SAMPLE NUMBER	SAMPLE COLOR/CLARITY	SAMPLE ODOR	INSTANTANEOUS FLOW	TOTALIZER READING
2	lt amber / lt cloudy	none		

OBSERVATIONS/NOTES: _____



Lower Colorado River Authority

ENVIRONMENTAL LABORATORY

3600 Lake Austin Blvd. Austin, Texas 78703 • (512) 473-3374

LAB ID: 9003446
FACILITY: WQSTP
ACCT NO: 15825000000BCF000V24000
LCRA

SAMPLE TYPE: STP

DATE REPORTED: 04/26/90

DATE RECEIVED: 04/19/90

SAMPLE DATE: 04/19/90

SAMPLE TIME: 0920

DEPTH:

LOCATION ID: 423 STEP WESTSIDE

PARAMETER	RESULTS	UNITS	STORET #	COMMENTS
BOD 5	<3	mg/L	00310	
Coliform, Fecal	0	/100 ml	31616	
Residue, Nonfilt-TSS	11	mg/L	00530	
pH, Laboratory	7.09	S.U.	00403	

Buck Henderson

BUCK HENDERSON
LABORATORY MANAGER





Lower Colorado River Authority

Post Office Box 220 Austin, Texas 78767 • (512) 473-3200

November 26, 1990

FL/STP 12

Mr. E.A. Feith, Manager
Environmental Dept.
Houston Lighting and Power Company
P. O. Box 1700
Houston, Texas 77251

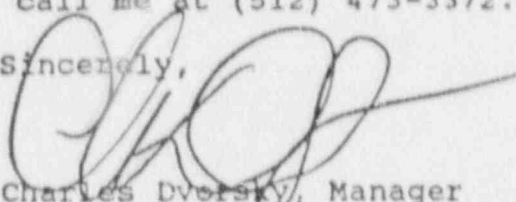
Dear Mr. Feith:

Please be advised that due to an expanded effort in Citizen Monitoring Program and Special Studies, the Lower Colorado River Authority (LCRA) will not be consistently monitoring wastewater treatment facilities on a monthly basis as has been done in the past. LCRA will, however, continue to monitor all wastewater treatment facilities on a periodic basis.

If your facility has relied on the LCRA data to meet part or all of your Texas Water Commission self-reporting requirements, you should immediately make alternative arrangements to meet these requirements.

If you have questions or require further information, please do not hesitate to call me at (512) 473-3372.

Sincerely,


Charles Dvorsky, Manager
Water Quality Analysis &
Monitoring

TEXAS WATER COMMISSION

B. J. Wynne, III, Chairman
John E. Birdwell, Commissioner
Cliff Johnson, Commissioner



John J. Vay, General Counsel
Michael E. Field, Chief Hearings Examiner
Brenda W. Foster, Chief Clerk

Allen Belnke, Executive Director

July 2, 1990

Mr. Ed Feith
Manager Environmental Department
Houston Lighting and Power Company
P.O. Box 1700
Houston, Texas 77001

RE: Houston Lighting and Power Company South Texas Nuclear
Project Wastewater Treatment Facilities; Permit No. 01908

Dear Mr. Feith:

An annual compliance inspection of the Houston Lighting and Power Company South Texas Nuclear Project wastewater treatment facilities was conducted by our Field Investigator, Mr. Rusty Evelo, on June 15, 1990. Mr. Breck Sacra, Environmental Specialist, Ms. Brenda Taylor, Engineering Technician, Mr. Ken Cunningham, Environmental Radwaste Specialist and Ms. Peggy Travis, Environmental Radwaste Specialist accompanied Mr. Evelo. Problems noted during the inspection are detailed below:

1. The sludge blanket in the final clarifier at the west side sewage treatment plant (401) was measured and found to be above recommended levels. The clarifier should not be used as a storage basin for activated sludge. Ideally, the sludge level should not be greater than 1/4 the total water depth of the basin.
2. Further to number 1 above, solids accumulations in the chlorine contact chamber at this plant measured 3 feet. This basin should be monitored on a regular basis and accumulations should be periodically removed and returned to the head of the plant to prevent them from rising and discharging with the final effluent.
3. In addition, the west side plant digester was not operating properly due to what appeared to be either a plugged diffuser or a broken air line. Appropriate actions should be taken to return this basin to service as soon as possible.

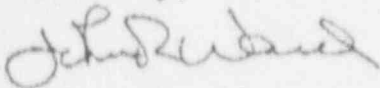
Please inform this office, in writing, by August 2, 1990 of the actions you have taken or plan to take to correct the above.

Mr. Ed Feith
Page -2-
July 2, 1990

mentioned deficiencies. Include in the response a time schedule for obtaining compliance with each item. We request that you also provide a copy of your response to EPA: TX/NN Compliance Section (6W-ET), Attention: Sharon Parrish, U.S. Environmental Protection Agency, 1445 Ross Avenue, Dallas, Texas 75202.

A copy of the inspection report is available upon request. If you have any questions, you may contact Rusty Evelo at (713) 457-5191.

Sincerely,



John R. Ward
Program Manager
Water Quality Program
District 7 - Houston

JRW/RE/amh



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 49th Street
Austin, Texas 78756-3199
(512) 458-7111

Robert A. Maclean, M.D.
Deputy Commissioner
Professional Services

Hermias L. Miller
Deputy Commissioner
Management and Administration

February 8, 1991

Mr. Edward Feith, Environmental Manager
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

Subject: Public Drinking Water Supply
South Texas Nuclear Project - Training Facility
I.D. #1610103
Matagorda County, Texas

Dear Mr. Feith:

On December 11, 1990, our representative, Matthew Chun, E.I.T., in company with Jim Warren and Howard Dudley, made a sanitary survey of the subject water system. As a result of this survey, your attention is directed to the following items of noncompliance with State Statutes and this Department's regulations.

1. The water system facilities must be properly maintained in order to promote cleanliness and to improve the general appearance of all plant facilities. This must include:
 - a. repairing the water leak at the drain valve underneath the pressure tank.
 - b. properly covering the cut-off valve at the pressure tank discharge line to keep it from being submerged in any contaminated water.
2. The cut-off valves at the pressure release device on top of the pressure tank must be kept open at all times.

In conclusion, we wish to express our thanks and appreciation for the courtesies extended during the survey. Should clarification of this letter be required or if we may be of other assistance, please contact our Austin office at 512/458-7497 or our regional office at 713/995-1889.

Very truly yours,

MVL/MC/mo

Mark V. Lowry

Mark V. Lowry, P.E.
Regional Director of Environmental
and Consumer Health Protection

ccs: Matagorda Co. Health Dept.
Region 4



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 49th Street
Austin, Texas 78756-3199
(512) 458-7111

Robert A. MacLean, M.D.
Deputy Commissioner
Professional Services

Hermas I. Miller
Deputy Commissioner
Management and Administration

February 8, 1991

Mr. Edward Feith, Environmental Manager
Houston Lighting & Power Company
P. O. Box 1700
Houston, Texas 77251

Subject: Public Drinking Water Supply
South Texas Nuclear Project - Main Plant
I.D. #1610051
Matagorda County, Texas

Dear Mr. Feith:

On December 11, 1990, our representative, Matthew Chun, E.I.T., in company with Brack Sacra, Peggy Travis and Jim Warren, made a sanitary survey of the subject water system. As a result of this survey, your attention is directed to the following items of noncompliance with State Statutes and this Department's regulations.

1. Your water system fails to meet this Department's "Minimum Water Quantity Requirements for Public Water Systems". These requirements include the following:

a minimum pressure tank capacity of 250 gallons

An engineering study should be done to determine a pressure tank capacity that will best serve your water system.

Your water system must be modified to meet this requirement so as to assure an adequate supply of water at all times.

2. The water system facilities must be properly maintained by repairing the water leak at the #5 and #7 well pumps.

In conclusion, we wish to express our thanks and appreciation for the courtesies extended during the survey. Should clarification of this letter be required or if we may be of other assistance, please contact our Austin office at 512/458-7497 or our regional office at 713/995-1807.

Very truly yours,

MVL/MC/mo

Mark V. Lowry

Mark V. Lowry, P.E.
Regional Director of Environmental
and Consumer Health Protection

ccs: Matagorda Co. Health Dept.
Region 4

Table 1
1990 ENVIRONMENTAL EXCEEDENCE SUMMARY

Outfall	Number of Exceedences per Parameter								Total Violations per Outfall		
	pH	TSS	BOD-5	OGG	Flow	TRC	Fecal Coliform	Bypass	Frequency	Total	Total
001								1		1	11
002										0	0
101										0	0
201		2		4						6	67
301										0	0
401								1		1	11
501										0	0
601		1								1	11
Totals	0	3	0	4	0	0	0	2	0	9	100

Legend:
TSS - Total Suspended Solids
BOD-5 - Biological Oxygen Demand (5-day)
O&G - Oil and Grease
TRC - Total Residual Chlorine

Appendix D

South Texas Project Electric Generating Station
Environmental Noncompliance Summary for 1990

Figure 1
1989/1990 Environmental Exceedence Summary

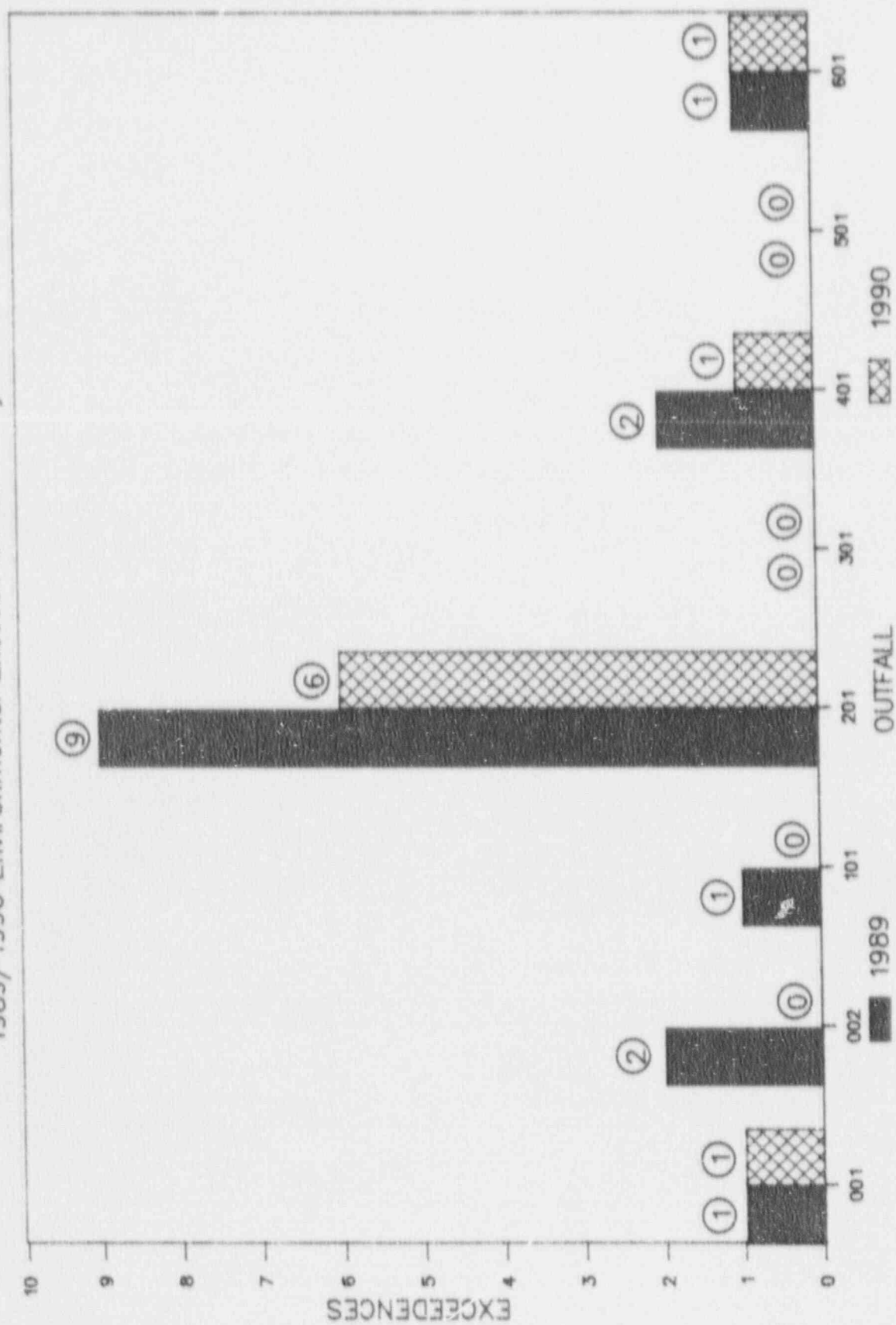


Figure 2
1989/1990 Monthly Exceedence Totals

