

SUMMARY OF ENVIRONMENTAL PROTECTION PROGRAM
RESPECTING CONSTRUCTION OF GRAND GULF NUCLEAR STATION
UNITS 1 AND 2
FOR SIX MONTHS ENDING APRIL 30, 1978

At the end of April, 1978, construction of Units 1 and 2 was 66% and 4% complete, respectively. Emphasis on Unit 1 construction continues to be directed towards closing in of the auxiliary building, completion of the containment building interior structures in preparation for dome set, turbine-generator erection, reactor internals installation, and installation of the bulk commodities (piping, raceway, and cable). The Unit 2 containment basemat concrete placement was completed in December, 1977 and work has begun on the auxiliary building and turbine building slabs.

VEHICULAR MOVEMENT

There were no "off limits" violations observed during the reporting period.

DUST CONTROL

There were no incidences of excessive dust observed during the reporting period.

SMOKE CONTROL

No excessive smoke violations were observed during the reporting period.

EROSION CONTROL

Rain occurred on fifty-six (56) separate occasions during the reporting period with an accumulated rainfall of 23.73 inches. Additional rainfall was observed during January and February but not recorded

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due to equipment malfunctions which have since been corrected. Runoff samples were collected on seventeen (17) of these instances and returned to the laboratory for suspended solids analysis. Additional runoff was observed on two (2) other occasions but no samples were taken because either the 24-hour time limitation had elapsed over the weekend or there was an equipment malfunction. Severe erosion was observed behind the Carpenter Shop adjacent to Sediment Control Basin "A" after heavy rainfall on November 28, 1977. This area was repaired on December 16, 1977. Erosion was observed in March near the southeast side of the switchyard and also at a drain between the upper and lower northwest laydown areas. Repairs have been completed in these areas. In addition to the aforementioned erosion repairs, the feasibility of removing the energy breakers in Basin "B" is being investigated because of a continuing siltation problem.

NOISE CONTROL

There were no noise control violations during the reporting period. Mississippi Power & Light Company has continued to observe noise levels and found that construction activities have not reached such noise-producing levels as to warrant resumption of noise level surveys.

CHEMICAL AND SOLID WASTE CONTROL

Thirty-seven (37) chemical and solid waste violations were observed during the six-month period. Thirty-one (31) of these violations involved oil spills, four (4) involved the improper disposal or storage

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of solid waste, and two (2) involved chemical spills. With the exception of two (2) spills in April, which were reported to the U. S. Coast Guard National Response Center, all substances were cleaned up immediately with no chemicals or oil reaching site streams, lakes or the Mississippi River.

On the night of April 3, 1978, a bulk fuel tank which was being moved from the floodplain to higher ground developed a severe leak. Over one hundred gallons of diesel fuel was released into the floodwater at the northernmost end of Hamilton Lake. Containment and cleanup operations did not begin until the spill was discovered by MP&L on the morning of April 4, 1978. Cleanup of this spill was completed by April 5, 1978.

A chemical spill of undetermined magnitude was observed the morning after tornadic winds hit the site on the night of April 17, 1978. The spill originated in the batch plant area and appeared to be a concrete additive. The material was released into the main drainage ditch which forms the upper end of Sediment Basin "B" which is connected to Site Stream "B". Due to the nature and timing of the spill, there were no containment or cleanup actions which could be initiated. No adverse affects to aquatic life were detected.

DEWATERING

Only three (3) wells showed water level changes of three feet or more. Well number OW4A showed increases of 4.7 and 3.7 feet in November and February, respectively. Well number OW4 showed an increase of

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3.9 feet in December. Both of these wells are located in permeable alluvial deposits which are hydraulically connected to the Mississippi River. Well number OW202 which had been dry since September 16, 1977 showed a reading on December 9, 1977 which corresponded to the last recorded reading in September. Readings taken since that date have been consistent with readings prior to the dry period. The reason for the three month dry period at well number OW202 has not been determined.

VEGETATION

Monthly vegetation surveys were made around the site periphery to detect vegetational stresses due to construction activities. No obvious abnormalities which could be attributed to construction activities were evident. However, tornadic winds on April 17, 1978 severely damaged approximately 400 acres of hardwoods. Pulpwood crews have been brought in to scrap selected downed areas of timber.

TRANSMISSION LINES

Semiannual post-construction surveys were conducted on both the GGNS-Franklin 500 KV and the 115 KV Port Gibson transmission lines on December 6, 1977 and April 26, 1978. Erosion areas reported in the May, 1977 survey had been repaired prior to the December, 1977 survey. In general, both lines are in excellent shape except for a few isolated erosion areas identified in the last two surveys which will be repaired during this growing season.