

UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I
970 BROAD STREET
NEWARK, NEW JERSEY 07102

OCT 20 1972

E. M. Howard, Chief, Reactor Construction Branch
Directorate of Regulatory Operations, Region I

INSPECTOR'S EVALUATION

SHOREHAM REPORT NO. 50-322/72-02
INSPECTION OF SEPTEMBER 13, 1972
LONG ISLAND LIGHTING COMPANY

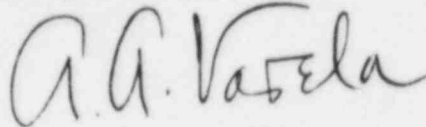
Of the eight (8) areas of site activities permitted by the DL letter to Lilco of August 16, 1972, only three were being performed, the maintenance dredging, site de-watering and erection of security fencing. These appear to be on work not covered by the S&W/Lilco contract. The other five areas of permissible activities are not being accomplished because a new contract between S&W and Lilco is being negotiated at this time. The original contract called for S&W to be restricted to the role of construction manager for the project. S&W's new proposal for a "force account" contract (which has not yet been accepted) would make (S&W) the prime contractor with first level QC responsibility for all site construction. Any subcontractor under this arrangement would supply labor only. The above is stated for guidance on QA Inspection.

From a technical point of view, I have little concern for any of the Shoreham activities permitted or presently undertaken, but what does concern me is a matter for DL to consider before a construction permit is issued. This has to do with about 900 tons of rebar presently in place for reactor foundation, about 300 tons ready, but not installed in the mat and another 2000 tons in open storage. All steel is unprotected and in a salty atmosphere, already about one year exposed. Normally some rust is preferred to no rust for better bond in concrete. ACI states: "metal rebar, at time concrete is placed, shall be free from loose flaky rust, mud, oil, or other coatings that will destroy or reduce bond." Who will make determination of rebar rust and if judged to be not loose flaky rust what will be permissible sodium chloride content?

Another item that DL should consider before a permit to construct is

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issued: Compacted soils from Elevation -12 to -3 (MSL) (Coreport 50-322/70-06) may be less compact as result of construction delay, to possible fluctuation of ground water and possible elastic rebound, due to the unloaded state of the compacted soil.

A handwritten signature in cursive script, reading "A. A. Varela". The signature is written in dark ink and is positioned above the printed name and title.

A. A. Varela
Reactor Inspector