

MAR 16 1977

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CStepp

MEMORANDUM FOR: Joseph D. Lafleur, Deputy Director  
Office of International Programs

FROM: Harold R. Denton, Director  
Division of Site Safety and Environmental Analysis

SUBJECT: PHILIPPINE PRELIMINARY SITE INVESTIGATION REPORT

As per your request of February 14, 1977, DSE has reviewed the subject report. The scope of the review was such to identify issues which warrant further consideration by the prospective applicant. An implicit assumption in the review is that existing NRC criteria would be applicable to this proposed station.

As a result of this review the enclosed comments were received from the DSE technical staff. Due to press of other business, the seismological review has not been completed, but it is expected that our comments in this area can be forwarded to you during the week of March 21, 1977. Depending upon existing priorities and availability of staff, we would be happy to discuss these comments with your office.

Original Signed by  
H. R. Denton

Harold R. Denton, Director  
Division of Site Safety and  
Environmental Analysis  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc: B. C. Rusche  
E. G. Case

OFFICE	DSE	DSE				
SURNAME	FJMiraglia/af	HRDenton				
DATE	3/16/77	3/16/77				

ACCIDENT ANALYSIS EVALUATION  
PRELIMINARY SITE INVESTIGATION REPORT  
PHILIPPINE NUCLEAR POWER PLANT

Population Density

The National Power Corporation has supplied demographic data for the time period 1975-2020 out to a 50 Km radius. The population density at 50 Km (31 miles) for 1975 and 2020 is 87/Km<sup>2</sup> and 477/Km<sup>2</sup> respectively. Figure 1 shows the current and projected population at 50 Km radius to be 685,827 and 3,70,045 respectively. This figure indicates that the current and projected populations fall within the current NRC guideline values of 500 and 1000 people/mile<sup>2</sup> respectively. We see nothing unusual in the present and the projected population at this site which would require the review of alternate sites.

Nearby Facilities

The light road traffic in the vicinity of the reactor site consists of mini-bus, jeeps and tricycles on Route 312 which passes within 1.5 Km north of the site. The only marine traffic listed by the applicant on the South China Sea, adjacent to the site, is by 20 motorized boats which carry six to ten persons.

The airstrip at Morong which was used by the Long Beach Mining Corporation is currently unused and is not being maintained. No mention is made of flight patterns in the vicinity of the site. We have noted no nearby transportation or industrial facilities which could affect the safe operation of this proposed nuclear power plant.

Section 2.2.3, Evaluation of Potential Accidents, has not been provided so that we are unable to comment further in this area. We do note from Figure 2.2-15 that a Naval Reservation is located about 15 Km (5.8 miles) from the proposed site.

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Additional Comment

It appears from Figure 1.1-1 that the turbine is in a non-peninsular orientation. NRC would request additional analysis to show that a turbine missile would not damage structures or systems critical for nuclear safety.

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Philippine Nuclear Power Plant  
Unit No. 1

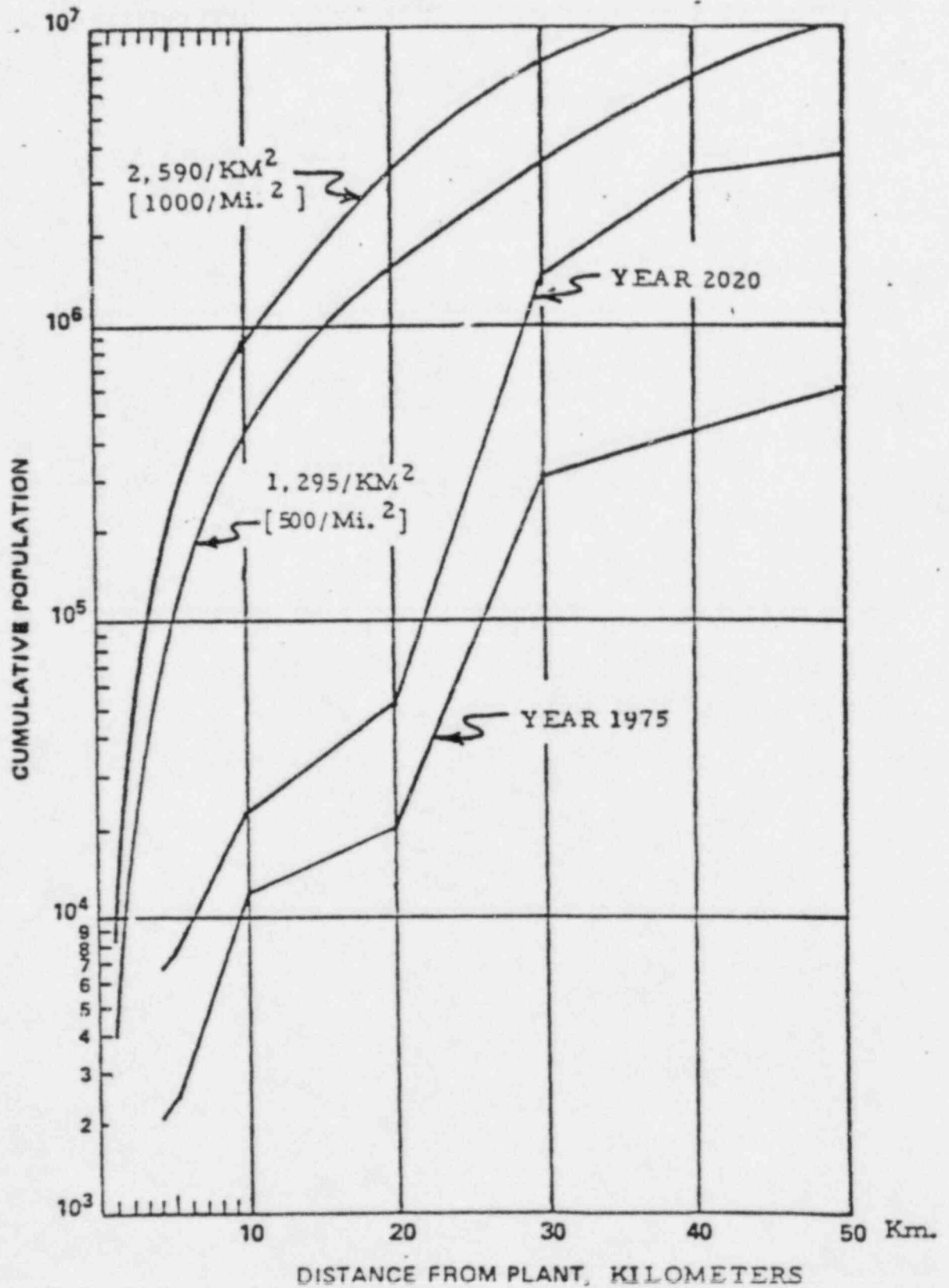


FIGURE 1 Cumulative Population Distribution

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