Kablegrama: PHILATOMIC

Republika ng Pilipinas MINISTRI NG ENERHIYA KOMISYON NG LAKAS ATOMIKA NG PILIPINAS DON MARIANO MARCOS AVENUE. DILIMAN QUEZON CITY

CO SOCIAL MUMBER DO PROPOSED RULE TR- Muse 1 Telepono Big. 97-60-11 1015 Reg. Stunde Kanong Kores Sig. 932 Maynila

Mr. Samuel J. Chilk Secretary of the Commission

Attn: Docketing and Service Branch Nuclear Regulatory Commission Washington, D.C. 20555 U.S.A.

11 June 1979 DOCKETED USN?.3 JUN 2 9 1979 > Office of the Secretary Docketing & Service Biancho

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Dear Mr. Chilk:

This is in response to Mr. Minogue's 21 May letter concerning selection and training of nuclear power plant (NPP) personnel.

My immediate concern is the safety of NPPs in developing countries. Since many of these countries must look to the US for leadership in nuclear technology, NRC standards are a vital concern. Consequently the following comments are offered for your consideration.

My experience, both in the States and in developing countries, indicates that qualifications needed in NPP operating personnel have been seriously underestimated. Considering their responsibilities, it seems that NPP operators might well receive treatment and meet requirements comparable to those for airline pilots.

Two systematic problems appear to be at the root of our troubles. First, the top management of utilities generally seem to have failed to fully recognize their responsibilities. Second, (and closely related) the utilities seem to have relied too heavily on the NRC and the reactor manufacturers.

The Three Mile Island (TMI) accident is a good example of personnel problems. For example, to "valve out" the auxiliary feedwater pumps was a gross error but to operate for weeks in that condition bespeaks a basic lack of concern about safety. Again, to trip the reactor coolant pumps when conditions for natural circulation had not been established was a serious error; to fail to restart the pumps when the hot leg temperature went off-scale with the cold leg temperature dropping indicates a lack of basic understanding of the system. The list could be extended.

It is important to recognize that the problem is with the system; it is not merely a matter of individuals. GPU is generally ecognized as one of our strongest utilities. Herman Dieckamp, the GPU President, certainly is experienced in nuclear matters and (I believe) quite competent. It is reported that the TMI crew on duty at the time of the accident is highly regarded. Nevertheless, it is manifest that insufficienc emphasis was placed on safety.

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TMI provides an excellent opportunity to rectify the situation because the accident was so highly publicized and because the public was protected from radiological injury while the utility was not protected from economic loss. At this time, very little added impetus is needed to achieve the needed improvements.

The problem is at the top. Attempts to upgrade the lower level personnel will meet with little success without management support. The operators, maintenance personnel, shift supervisors, etc. cannot be expected to meet stringent requirements if they are treated like fork-lift operators. Also the people at the plant cannot be expected to emphasize safety if management does not recognize the need for such emphasis.

It is not clear just what action the NRC should take. One possibility is a series of seminars specifically for nuclear utility presidents, directors and other members of top management. Another possibility is the licensing of utility chief executive officers. There is little question, however, as to where the emphasis should be.

It seems that the NRC should move with caution in offering guidance about the qualifications and training of lower level personnel. Surely the NRC should develop firm justifications for its recommendations in this area. Where requirements are simple matters of judgment, considerable flexibility should be available. NUREG reports might be better than Reg. Guides at this time.

Sincerely, ale A. Willis

CHARLES A. WILLIS Nuclear Reactor Safety Expert