

Dealt with by Erland Tenerz (21) 10 75 16 For the attention of

Mr Thomas Murley Director of Nuclear Reactor Regulatory

Copy: Mr HD Thomburg

Our Date October 15, 1987 Your Date Our veterence

Your reference

U S Nuclear Regulatory Commission

WASHINGTON DC USA

Subject: Supplement No 1 to ASEA-ATOM Report ASEA-ATOM Topical Report TR UR 85-225 P ASEA-ATOM BWR Control Blades for U S BWRs

Dear Mr Murley:

ASEA-ATOM hereby requests NRC approval of supplement No 1 to the ASEA-ATOM Topical Report on control rods, ASEA-ATOM Topical Report TR UR 85-225 P, "ASEA-ATOM BWR Control Blades for US BWRs". The subject supplement No 1 has been prepared to describe the modifications to the basic ASEA-ATOM BWR control rod design that are required to accommodate the dimensions of the GE BWR C-Lattice Core and to assess the impact of these changes on the basic ASEA-ATOM BWR control rod mechanical and nuclear characteristics.

Since the specific dimension and characteristics of the ASEA-ATOM control rod described in our original Topical Report are for D-Lattice Cores, the C-Lattice design and its associated impact on the original ASEA-ATOM control rod design have been reviewed and hereby reported. The results of our review of the C-Lattice design and its impact on the mechanical and nuclear characteristics of the basic ASEA-ATOM BWR control rod design show that the mechanical characteristics of the C-Lattice control rod are slightly improved while the nuclear characteristics remain unchanged except for a slightly shorter nuclear lifetime.

Four ASEA-ATOM C-Lattice hafnium tipped (CR-82) BWR control rods have been purchased by Commonwealth Edison Company as lead test elements for use in LaSalle. Since this demonstration quantity has been sold in the US we believe the generic approval of our basic C-Lattice design should be requested at this time.

Enclosed Supplement No 1 is an extension of the ASEA-ATOM Topical Report on control rods, ASEA-ATOM Topical Report TR UR 85-225 P, "ASEA-ATOM BWR Control Blades for US BWRs" in that it supplements information provided in that report. An outlined drawing of the CR-82 hafnium tipped C-Lattice ASEA-ATOM BWR control rods is included as part of the Supplement No 1.

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Mr Thomas Murley Director of Nuclear Reactor Regulatory US Nuclear Regulatory Commission WASHINGTON DC

Mr Harold D Thornburg, Manager Core Components, Innovative Technologies Incorporated, Monroeville, PA has been designated as the ASEA-ATOM contact in this matter. If you have any questions regarding this matter please contact Mr Thornburg.

Thank you for consideration of this in our previous supplements to the NRC.

Very truly yours

ASEA-ATOM FuelDivision Venere 1

Erland Tenerz Vice President and General Manager

Supplement No 1 to ASEA-ATOM Report TR UR 85-225 P

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