OCT 3 0 1981

Docket Nos.: STN 50-454, STN 50-455 and STN 50-456, STN 50-457

Mr. Louis O. DelGeorge Director of Nuclear Licensing Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690

Dear Mr. DelGeorge:

DISTRIBUTION Docket LB#1 Rda DEisenhut BJYoungblood MRushbrook RLTedesco KKiper WKane JWermiel | LRubenstein RHVollmer TMurley RHartfield, MPA WJohnston OFID

DIE (3)

bcc:
TERA
NRC/PDR
L/PDR
NSIC
TIC
ACRS (10)
NOVO 5 1981

We have made an initial review of the auxiliary feedwater system (AFNS) reliability analysis report for Byron which you submitted by letter dated. The September 18, 1981 and have identified the following area of major concernwith the reliability of your AFMS. Your analysis indicates that for a loss of offsite power, AFWS reliability will not be in the high range (10 to 10 per demand) as identified in the criteria of SRP Section 10.4.9 for meeting the requirements of Criterion 44 of the General Design Criteria. We believe this is primarily due to the fact that the system does not have three AFD pumps capable of functioning in a loss of offsite power condition.

We have recently been informed by members of your staff that although your current reliability analysis uses the methodology of NUREG-0611, it does not use NUREG-0611 failure rate data in all instances as required by the staff. We were further advised that you plan to revise your reliability analysis to correct these shortcomings and that you expect this reanalysis to result in a reliability for your AFWS consistent with the criteria of SRP Section 10.4.9.

We will review your revised analysis when it becomes available. However, we are not encouraged that the renanlysis will show compliance with the above criterion. We therefore encourage you to begin the engineering design effort at this time for implementation of a third AFWS pump capable of providing at least the minimum flow necessary to the steam generators for decay heat removal during a loss of offsite power condition and submit the design details of the AFWS modification as they become available.

Contact W. Kane, who will be the acting Byron Project Manager on (301)492-7050 if you desire to discuss this matter further.

Sincerely,

Original signed by parrell G. Eisenhut

8111170188 811030 PDR ADDCK 05000454 PDR

Darrell G. Eisenhut, Director Division of Licensing Office of Nuclear Reactor Regulation

*SEE PREVIOUS CONCURRENCE FOR INITIALS

OFFICE WKane	/yt KKiper	JWerm:	2 - 7	0 1						1	Contract of the Contract of th
SPANISHUR A LATERATORIS		Jwerm	1e i L	Rubenst	ein.	BJYoung	blood	RLTede	esco	DETS	enhut
SURNAME WKane/	/81 10/ /81	10/	/81	10//8	1	10/ /81	*******	10/	/81	104	¥81

Docket Nos. STN 50-454, STN 50-455 and STN 50-456, STN 50-457

> Mr. Louis O. DelGeorge Director of Nuclear Licensing Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690

Dear Mr. DelGeorge:

DISTRIBUTION: Docket LB#1 Reading DEisenhut BHYoungblood MRushbrook RLTedesco KKiper WKane JWermie? LRubens tein RHVollmer TMurley RHartfield, MPA WJohns ton OELD 018E(3)

bcc: TERA NRC PDR L PDR NSIC TIC ACRS (16)

We have made an initial review of the auxiliary feedwater system (AFWS) reliability analysis report for Byron which you submitted by letter dated September 18, 1981, and have identified the following area of major concern with the reliability of your AFWS. Your analysis indicates that for a loss of offsite power, AFWS reliability will not be in the high range (10-4 to 10-5 per demand) as identified in the criteria of SRP Section 10.4.9 for meeting the requirements of Criterion 44 of the General Design Criteria. We believe this is primarily due to the fact that the system does not have three AFW pumps capable of functioning in a loss of offsite power condition.

We have recently been informed by members of your staff that although your current reliability analysis uses the methodology of NUREG-0611, it does not use NUREG-0611 failure rate data in all instances as required by the staff. We were further advised that you plan to revise your reliability analysis to correct these shortcomings and that you expect this reanalysis to result in a reliability for your AFWS consistent with the criteria of SRP Section 10.4.9.

We will review your revised analysis when it becomes available. However. we are not encouraged that the reanalysis will show compliance with the above criterion. We therefore encourage you to begin the engineering design effort at this time for implementation of a third AFWS pump capable of providing at least the minimum flow necessary to the steam generators for decay heat removal during a loss of offsite power condition and submit the design details of the AFWS modification as they become available.

Contact W. Kane, Byron Project Manager on (301)492-7050 if you desire to discuss this matter further.

Sincerely.

Darrell G. Eisenhut, Director Division of Licensing

cc: See next page

*SEE	PREVIO	IUS	CONCURRE	NCF	FOR	INITIAL	5
		100	0011001111	11 1 1 m	1.3713	AITA I A Class	

	SEE LKENIOUS	CUNCURRENCE	FUR INTITALS	-	-		
retype	DL:LB#1*	DL:LB#1*	ASB*	DSI:C&CS*	DL:LB#1*	OLA.	DL
10/22	.WKane:yt	KKiper	.JWermiel	.LRubenstein.	.BJY.oungblood	RLTedesco	DGEisenhut
3	.10/21/81		10/21/81	10/21/81	10/21/81	.10/.93/81	10//81

Docket Mos.: STN 50-454, STN 50-455 and STN 50-456, STN 50-457

Mr. Louis O. DelGeorge Director of Nuclear Licensing Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690

Dear Mr. DelGeorge:

Dist. Docket File LB#1 Rdq bcc: DEisenhut TERA BJYoungblood NRC/PDR MRushbrook L/PDR RLTedesco NSIC KKiper TIC WKane ACRS (16) JWermie] LRubenstein RVollmer TMurley RHartfield, MPA WJohnston OELD OIE (3)

We have made an initial review of the auxiliary feedwater system (AFWS) reliability analysis report for Byron which you submitted by letter dated September 18, 1981 and have identified the following area of major concern with the reliability of your AFWS. Your analysis indicates that for a loss of offsite power, AFWS reliability will not be in the high range (10-4 to 10 per demand) as identified in the criteria of SRP Section 10.4.9 for meeting the requirements of Criterion 44 of the General Design Criteria. We believe this is primarily due to the fact that the system does not have three AFW pumps capable of functioning in a loss of offsite power condition.

We have recently been informed by members of your staff that although your current reliability analysis uses the methodology of MUREG-0611, it does not use MUREG-0611 failure rate data in all instances as required by the staff. We were further advised that you plan to revise your reliability analysis to correct these shortcomings and that you expect this reanalysis to result in a reliability for your AFWS consistent with the criteria of SRP Section 10.4.9.

We will review your revised analysis when it becomes available. However, we are not encouraged that the renanlysis will show compliance with the above criterion. We therefore encourage you to begin the engineering design effort at this time for implementation of a third AFWS pump capable of providing at least the minimum flow necessary to the steam generators for decay heat removal during a loss of offsite power condition and submit the design details of the AFWS modification as they become available.

Contact the Byron Project Manager if you desire to discuss this matter further.

Sincerely,

Darrell G. Eisenhut, Director Division of Licensing Office of Nuclear Reactor Regulation

See previous yellow. next page DLE AD/L 8 160 DL: LB#1 DL:DIR DL:LB#1 DL: LB#1 OFFICE Bayoungblood RLTedesco DEisenhut KKiper LRubenstein WKane /yt SURNAME & 10/-10/92/81 10/ /81 10/2//81 10/

Docket Nos.: STN 50-454, STN 50-455 and STN 50-456, STN 50-457

Mr. Louis O. DelGeorge Director of Nuclear Licensing Commonwealth Edison Company Post Office Box 767 Chicago, Illinois 60690

Dear Mr. DelGeorge:

Dist. Docket File OELD LB#1 Rdq DEisenhut bcc: BJYoungblood TERA MRushbrook NRC/PDR RLTedesco L/PDR NSIC KKiper WKane TIC NSIC JWermie1 LRubenstein ACRS (16) RVollmer TMurley RHartfield, MPA WJohnston OELD

We have made an initial review of the auxiliary feedwater system (AFWS) reliability analysis report for Byron which you submitted by letter dated September 18, 1981 and have identified the following area of major concern with the reliability of your AFWS. Your analysis indicates that for a loss of offsite power, AFWS reliability will not be in the high range (10-4 to 10-5 per demand) as identified in the criteria of SRP Section 10.4.9 for meeting the requirements of Criterion 44 of the General Design Criteria. We believe this is primarily due to the fact that the system does not have three AFW pumps capable of functioning in a loss of offsite power condition.

We have recently been informed by members of your staff that although your current reliability analysis uses the methodology of NUREG-0611, it does not use NUREG-0611 failure rate data in all instances as required by the staff. We were further advised that you plan to revise your reliability analysis to correct these shortcomings and that you expect this reanalysis to result in a reliability for your AFWS consistent with the criteria of SRP Section 10.4.9. We are not encouraged that the reanalysis will obviate the need for a third pump. We will, of course, review your revised analysis as it becomes available.

Accordingly, we believe you should commit, as soon as possible, to provide a third AFW pump capable of providing at least the minimum flow necessary to the steam generators for decay heat removal during loss of offsite power conditions, and submit the design details of the AFWS modifications as they become available.

Contact the Byron Project Manager if you desire to discuss this matter further.

Sincerely,

Darrell G. Eisenhut, Director Division of Licensing Office of Nuclear Reactor Regulation

OFFICE	DL:LB#1	DL:10#1	ASB		DL:LB#1	AL: AD/Le	AL:DIR
SURNAME	KKiper/yt		JWermiel			RLTedesco	
DATE	KKiper/yt 1000/81	10/20/81	10//81	10//81.	10//81	10/2/81	10//21

Mr. Louis O. Del George Director of Nuclear Licr Commonwealth Edison Cr Post Office Box 767 Chicago, Illinois 60

ccs:

Mr. William Kortier
Atomic Power Distribution
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Paul M. Murphy, Esq. Isham, Lincoln & Beale One First National Plaza 42nd Floor Chicago, Illinois 60603

Mrs. Phillip B. Johnson 1907 Stratford Lane Rockford, Illinois 61107

Professor Axel Meyer Department of Physics Northern Illinois University DeKalb, Illinois 60115

C. Allen Bock, Esq. P. O. Box 342 Urbanan, Illinois 61801

Thomas J. Gordon, Esq. Waaler, Evans & Gordon 2503 S. Neil Champaign, Illinois 61820

Ms. Bridget Little Rorem Appleseed Coordinator 117 North Linden Street Essex, linois 60935

Dr. Bruce von Zellin
Department of Biological Sciences
Northern Illinois University
DeKalb, Illinois 61107

Mr. Edward R. Crass Nuclear Safeguards and Licensing Division Sargent & Lundy Engineers 55 East Monroe Street Chicago, Illinois 60603

Nuclear Regulatory Commission, Region III Office of Inspection and Enforcement 799 Roosevelt Road Glen Ellyn, Illinois 60137

Myron Cherry, Esq. Cherry, Flynn and Kanter 1 IBM Plaza, Suite 4501 Chicago, Illinois 60611

U. S. Nuclear Regulatory Commission Resident Inspectors Office 4448 German Church Road Byron, IL 61010