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FILE NUMBER

TO: Mr Butler

FROM: Penn Power & Light Co
Allentown, Pa
N W Curtis

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2-20-76

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DESCRIPTION

Ltr furnishing info & proposed changes & modifications to concrete requirements in ACI 318-71.....(one cy rec'd)

DIST PER LPM MINOR 3-8-76

PLANT NAME: Susqueahna 1 & 2

ENCLOSURE

DO NOT REMOVE

ACKNOWLEDGED

SAFETY FOR ACTION/INFORMATION ENVIRO 3-8-76 ehf

ASSIGNED AD :	De Young	ASSIGNED AD :	
BRANCH CHIEF :	Butler	BRANCH CHIEF :	
PROJECT MANAGER:	Minor	PROJECT MANAGER :	
LIC. ASST. :	Rushbrook	LIC. ASST. :	

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	ENVIRO TECH
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	TEDESCO	ERNST
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	BENAROYA	BALLARD
<input checked="" type="checkbox"/> OELD		LAINAS	SPANGLER
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
MIPC	MACCARY		SITE TECH
CASE	KNIGHT	OPERATING REACTORS	GAMMILL
HANAUER	SIHWEIL (3)	STELLO	STEPP
HARLESS	PAWLICKI		HULMAN
		OPERATING TECH	
PROJECT MANAGEMENT	REACTOR SAFETY	EISENHUT	SITE ANALYSIS
BOYD	ROSS	SHAO	VOLLMER
P. COLLINS	NOVAK	BAER	BUNCH
HOUSTON	ROSZTOCZY	SCHWENCER	J. COLLINS
PETERSON	CHECK	GRIMES	KREGER
MELTZ			
HELTEMES	AT & I	SITE SAFETY & ENVIRO	
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	RUTBERG	DENTON & MULLER	

EXTERNAL DISTRIBUTION

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<input checked="" type="checkbox"/> NSIC	LA PDR	
<input checked="" type="checkbox"/> ASLB	CONSULTANTS	
<input checked="" type="checkbox"/> ACRS/6 HOLDING/SENT	To LA Rushbrook	

CONTROL NUMBER

P 1645

PP&L

ACKNOWLEDGED

TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 PHONE: (215) 821-5151

Bicentennial
Pennsylvania
1976



So your children can tell
their children.

February 17, 1976

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Regulatory

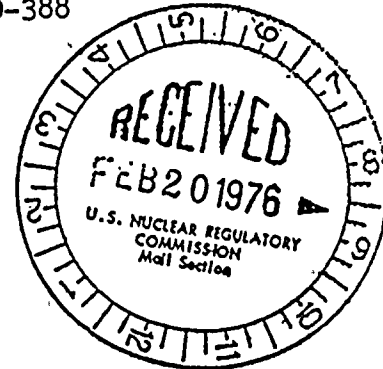
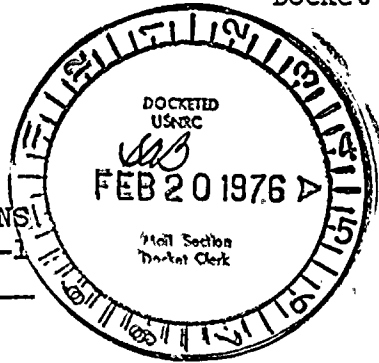
File Cy 7

Director of Nuclear Reactor Regulation
Light Water Reactors Branch No. 1-2
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Docket Nos. 50-387
50-388

ATTENTION: Walter R. Butler, Chief

SUSQUEHANNA STEAM ELECTRIC STATION
MODIFICATIONS TO CONCRETE SPECIFICATIONS
ER 100450 FILES 840-2, 150-1
PLA-104



Dear Dr. Butler:

We are modifying certain concrete requirements in ACI 318-71 with the objective of improving our schedule and cost considerations while retaining a high level of construction quality.

We are submitting this change together with supporting justification for your review.

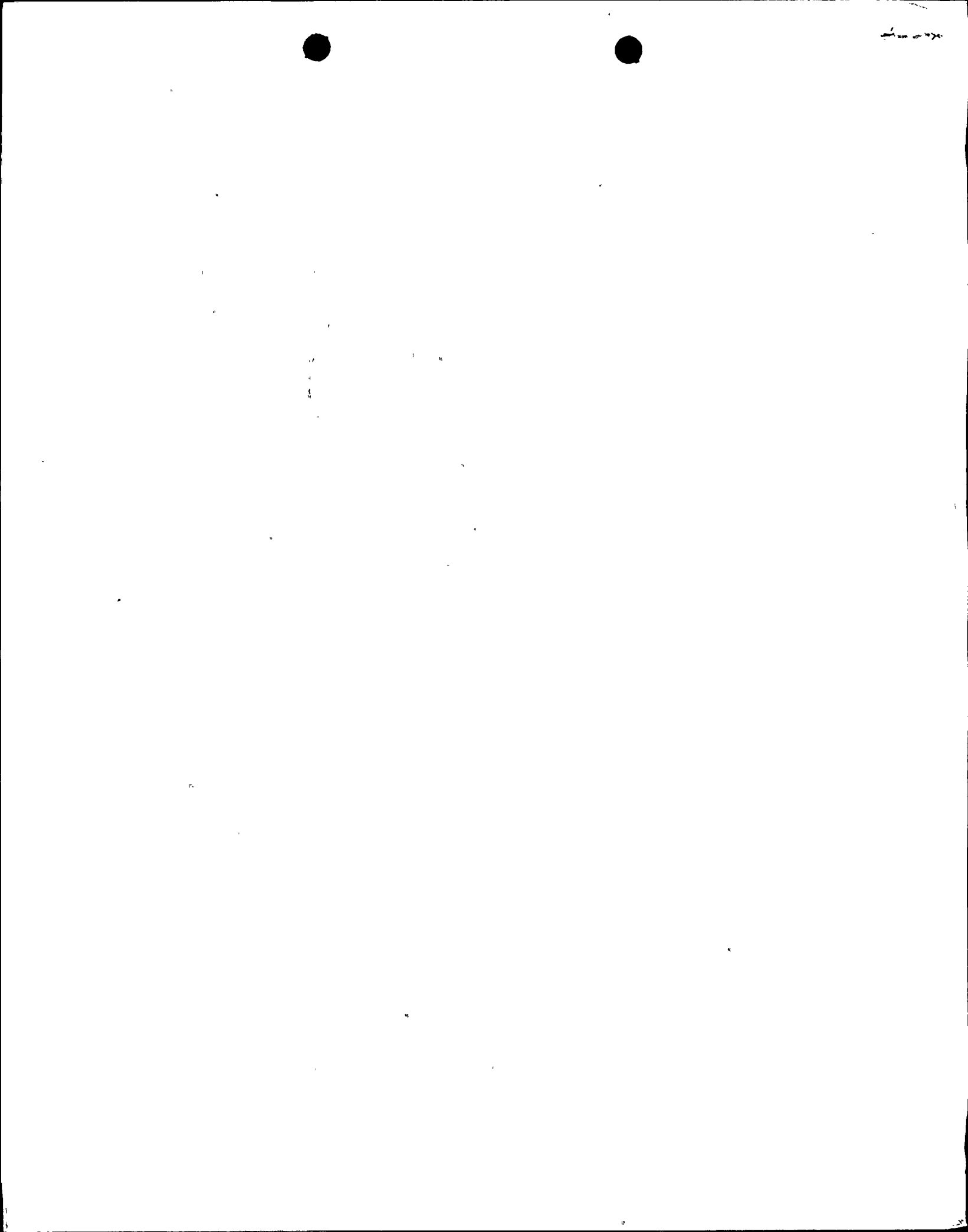
PROPOSED CHANGE #1:

The requirements of ACI 318-71, Paragraph 6.4.1 are modified as follows:

- A. The last sentence of this paragraph is deleted in its entirety and the following shall be substituted: "vertical joints shall be thoroughly wetted immediately before placing of new concrete".

The purpose of this change is to delete the present ACI 318-71 Code statement requiring unnecessary cement coating of vertical construction joints. The inclusion of this provision in the ACI 318-71 Code and other industry standards is intended to ensure adequate bond between existing concrete and a new placement. This method has been included in various industry specifications for many years as a standard procedure to ensure that there is adequate cement paste along the vertical face of a construction joint to bond the old concrete with the new.

We believe that this practice is unnecessary for the Susquehanna Project since the procedures employed on the Project ensure a vertical construction joint which is at least as good as, and in many cases is superior to, those made following the old practice of coating with neat cement grout.



Our present procedures require that all vertical construction joints shall be roughened and thoroughly wetted before placing of new concrete. In addition, the placement is consolidated by mechanical vibrating equipment to ensure complete contact of the wet concrete with the face of the formed joint, so that the required bond will be developed between the two placements.

We have obtained opinions from several experts in the field of concrete design and construction and all of them support this procedure as the preferred method of developing bond at vertical construction joints. Among these are Mr. Lewis H. Tuthill-Concrete Engineering Consultant, Mr. Fritz Kramrisch-Chairman ACI 318 "C"-Subcommittee, Mr. Richard D. Gaynor-Vice President of Engineering and Research, National Ready Mixed Concrete Association.

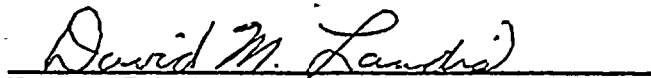
We intend to impelment this change on March 5, 1976. This change will be submitted in a future PSAR Amendment. If you have any questions regarding this change, please contact us.

Very truly yours,



N. W. Curtis
Vice President-Engineering and Construction

Sworn to and Subscribed before me
this 18th of February, 1976



Notary Public

My Commission Expires: March 15, 1976

