

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr Butler

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

DATE OF DOCUMENT
2-17-76

DATE RECEIVED
2-20-76

LETTER
 ORIGINAL
 COPY

NOTORIZED
 UNCLASSIFIED

PROP INPUT FORM

NUMBER OF COPIES RECEIVED
one signed

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

REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	ENVIRO TECH
NRC PDR	HEINEMAN	TEDESCO	ERNST
I. & E (2)	SCHROEDER	BENAROYA	BALLARD
OELD		LAINAS	SPANGLER
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
MIRC	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	VOLLNER
P. COLLINS	NOVAK	BAER	BUNCH
HOUSTON	ROSZTOCZY	SCHWENCER	J. COLLINS
PETERSON	CHECK	GRIMES	KREGER
MELTZ			
HELTEMES	AT & I	SITE SAFETY & ENVIRO	
SKOVHOLT	SALTZMAN	ANALYSIS	
	RUTBERG	DENTON & MULLER	

EXTERNAL DISTRIBUTION

EXTERNAL DISTRIBUTION	CONTROL NUMBER
LPDR:	
TIC	
NSIC	
ASLB	
ACRS/6 HOLDING/SENT TO LA Rushbrook	21645



February 17, 1976

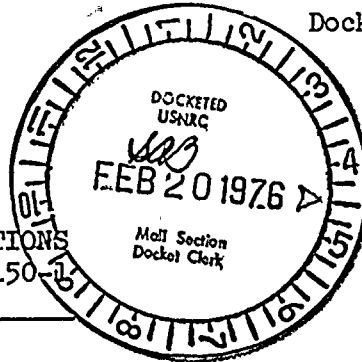
Regulatory

File Cy

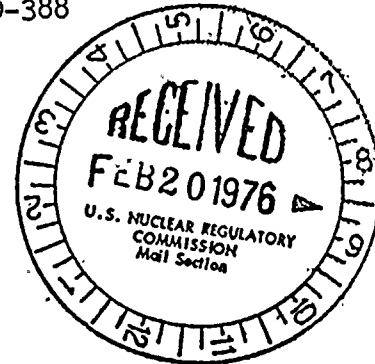
Director of Nuclear Reactor Regulation
Light Water Reactors Branch No. 1-2
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Docket Nos. 50-387
50-388

ATTENTION: Walter R. Butler, Chief



SUSQUEHANNA STEAM ELECTRIC STATION
MODIFICATIONS TO CONCRETE SPECIFICATIONS
ER 100450 FILES 840-2, 150-4
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.

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

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

THE UNITED STATES OF AMERICA
DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

MEMORANDUM FOR THE DIRECTOR
FROM: SAC, NEW YORK (100-100000-100000)
SUBJECT: [REDACTED]

RE: [REDACTED]

DATE: [REDACTED]

BY: [REDACTED]