

MAR 30 1976

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W. P. Gammill, Assistant Director for Site Technology  
Thru: J. C. Stepp, Chief, Geology and Seismology Branch

MEETING AMONG CON ED, ITS GEOLOGICAL CONSULTANTS, AND NRC REGARDING  
THE INDIAN POINT FAULT STUDIES FOLLOWED BY A FIELD TRIP TO POMPTON  
LAKE

On March 22, 1976, Dr. D. Budge, R. McMullen and Br. R. Jackson met with representatives of Consolidated Edison Company and their geologic and seismologic consultants, Dames and Moore. Dr. H. Barnes, consultant to Con Ed in the field of crystal fluid inclusion analysis, was also present. Other parties to the safety hearing were informed of the meeting, but were not in attendance.

The primary purpose of the meeting was to allow the NRC staff the opportunity to examine first hand, hand samples and petrographic thin sections containing calcite crystals taken from the faults in the site area. Extensive discussions were also carried out on the assessment of fluid inclusions and deformation of calcite crystals.

Dr. Barnes responded to questions from the staff, discussed some of the details of the Fluid inclusion studies, and showed additional data that had not been included in the Dames and Moore reports.

We were also informed that a radiometric age of 73 million years before present had been obtained for a stilbite sample which capped the calcite crystals. This dating was accomplished on a fault zone outside of the immediate site area.

As additional investigative work is underway we requested, and the applicant agreed, that we have a meeting in early or middle April in which Con Ed will give a progress report and a summary of the results of the on-going investigations.

On 23 March 1976, S. Coplan and R. McMullen of NRC accompanied by C. Houlik of Dames and Moore conducted a brief reconnaissance of the general epicentral area of the 11 March, 1976 Pompton Lake earthquake. We also examined several sand and gravel excavation areas along

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the contact between the Pre Cambrian Highlands and the Newark Basin just south of Route 23 near Riverdale; a steep sided topographic high extending south from the highlands into the Newark Basin; and an exposure of faulted conglomerate southwest of Oakland.

15/  
R. Jackson, Geologist  
Geology and Seismology Branch  
Division of Site Safety and  
Environmental Analysis

15/  
R. McMullen, Geologist  
Geology and Seismology Branch  
Division of Site Safety and  
Environmental Analysis

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SURNAME >	RMcMullen:sl	RJackson	SCoplan	DBudge	JHepp
DATE >	3/29/76	4/1/76	4/1/76	3/1/76	3/1/76

LIST OF ATTENDEES

Meeting on March 22

Consolidated Edison

V. Gonnella

Dames and Moore

Dr. T. Gates

J. Szymanski

J. Wallach

Dr. J. Gibbons

Dr. H. Barnes - Consultant to Dames & Moore

NRC

Dr. D. Budge

Dr. R. Jackson

R. McMullen

Field Trip of March 23

Dames and Moore

C. Houlik, Jr.

NRC

S. Coplan

R. McMullen