

STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION

Admin # 386

FROM

DATE

August 1973

SUBJECT

Phillip H. Wightman
Fisheries Biologist

TO

Terrence P. Frost
Water Supply & Pollution Control
Prescott Park, 105 Loudon Road
Concord, N. H. 03301

Dear Terry:

In regard to your inquiry regarding a 6° rise in temperature below the Bow Steam Plant and its effect upon fish in the area: I read over the discharge permit text and it is my understanding that Public Service Co. shall not cause the temperature to exceed 5°F unless it can be demonstrated to the satisfaction of the Commission that greater rises would not be harmful to fish, other aquatic life or other uses.

On July 27 at 1630, based on the print-out from Public Service, there was an increase of 10° below the plant compared to ambient temperatures at N-10. Needless to say, this is considerably above the allowable heat rise agreed upon. There were other cases where temperatures rose above the 5° limitation. Based on this information and the fact the 5° increase was set by personnel experienced in the field of fish-temperature relations, I question whether the existing facility is adequate to perform within the temperature standards established. Perhaps a closed cycle system is the only way to solve the heated water problem at the steam plant.

Sincerely yours,

Phillip H. Wightman
Fisheries Biologist

PHW/jg