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90-RF-1093

March 13, 1990

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Robert M. Nelson, Jr.
Manager
DOE, RFO

RE-ESTABLISHMENT OF SOLAR POND FREEBOARD AND CONTINGENCY PLAN FOR ADDITIONAL WATER RUNOFF

Ref: Telecommunication A. L. Schubert (EG&G) and J. Kiefer (RFO) on March 13, 1990.

The reference verified notification of exceeding solar pond freeboard criteria and provided a framework for gaining Colorado Department of Health (CDH) acceptance of the plan for reducing pond levels. Due to runoff from the blizzard of March 6, 1990 and temporary inability to transfer pond water from the 207B ponds, the established freeboard levels have been exceeded. With the continued accumulation of runoff from the north end of the plant through the French drain/Interceptor Trench System to the central sump, continual pumping of the sump into 207B north pond requires prompt intervention to reduce 207B pond levels.

To prevent a possible overflow, it is proposed that water from 207B ponds be transferred into 207A pond to bring established freeboard levels back within compliance and provide a margin of safety. This would be accomplished by transferring 1100K gallons from pond 207B to 207A pond. Currently about 200K gallons of snow melt and rain water have accumulated in 207A pond. It is estimated as of March 13, 1990 that approximately 700K gallons must be pumped from the 207B ponds to achieve the 24 inch freeboard requirement and additional 400K gallons of pumping would provide about 12 additional inches of freeboard and adequate margin for terminating 207A pond use. The 6M gallon capacity of the 207A pond provides a large surge capacity in case of continued heavy precipitation.

The normal method of supplementing evaporation in the solar ponds, transfer to the 1.2M gallon 231 tanks for evaporator feed into Building 374, has been out of commission due to the removal from service of Building 774 underground storage tanks and subsequent piping arrangements to prohibit their use. The maintenance package to restore pond pumping capability has been on hold pending re-establishment of the 774 Building Uninterrupted Power Supply (UPS). Water from 207B north pond would be held in 207A then pumped to Building 374 or the 231 Storage Tank complex and processed through the Building 374 evaporator upon completion of a maintenance work order in Building 774 (to restore transfer capabilities).

The 207A pond usage is proposed only for the short term, however, the accumulation of snow has created a high water inventory around the plant and continued precipitation could extend the requirement for its use. Likewise an evaporator casualty could delay restoration of satisfactory levels.

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LHOFF, F.H.	<input checked="" type="checkbox"/>	
EEN, J.H.	<input type="checkbox"/>	
ETZKE, J.C.	<input type="checkbox"/>	
RLINGAME, A.H.	<input type="checkbox"/>	
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ELASQUEZ, R.N.	<input type="checkbox"/>	
<i>JC Mann</i>	<input checked="" type="checkbox"/>	
<i>SHARPE</i>	<input checked="" type="checkbox"/>	
<i>Schubert, A.L.</i>	<input checked="" type="checkbox"/>	
CORRES. CONTROL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CONTRACT ADMIN.	<input type="checkbox"/>	<input type="checkbox"/>

CLASSIFICATION:

UNCLASSIFIED

CONFIDENTIAL

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AUTHORIZED CLASSIFIER SIGNATURE

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REPLY TO LTR NO.

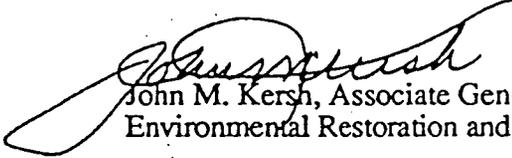
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Robert M. Nelson, Jr.
March 13, 1990
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A detailed plan of action to restore normal solar pond level control will be forwarded by close of business March 15, 1990.



John M. Kersh, Associate General Manger
Environmental Restoration and Waste Management

RFM:cll

Orig. and 1 cc - R. M. Nelson, Jr.

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