TO: R. M. Hill (P) 7
FROM: L. N. Young
PHONE: 6541
SUBJECT: INCIDENT REPORT

INCIDENT LOCATION: RMDF - Building 664
DATE: 2-10-65
TIME: 2330 Hours

NATURE OF HAZARD: Approximately five gallons of radioactive contaminated liquid
with concentration of activity of approximately 5.0 x 10^{-3} uc/cc beta-gamma.

SUMMARY OF INCIDENT: A stoppage, apparently caused by concentration of insolubles
contained in liquid, occurred during operation of the RMF evaporative system.
While attempting to remove stoppage by reverse flow provided by the circulating
pump of the circulating system, excessive pressure buildup occurred which blew
Tygon tubing from a connection. As a result, a small area of asphalt was con-
taminated to a maximum level of 2000 d/m/100 cm² indicated by smears immediately
after occurrence. Other components of the system were contaminated to a maximum
level of 2000 d/m/100 cm². Decontamination was performed by operations using
HCl and a scrub brush.

PERSONNEL INVOLVED IN INCIDENT

FIRST AID PERSONNEL CONTAMINATION SURVEY

<table>
<thead>
<tr>
<th>PERSONNEL INVOLVED IN INCIDENT</th>
<th>SURVEY METER</th>
<th>SMEARS</th>
<th>NASAL SMEARS</th>
<th>BIOASSAY</th>
<th>ADDITIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. W. Reed</td>
<td>X</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td><em>R. A. Beck</em></td>
<td>X</td>
<td>Yes</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>R. J. Pharis</td>
<td>X</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<td>*Slight contamination on hand.</td>
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COMMENTS AND RECOMMENDATIONS: Modification of the existing malleable pipe plumbing
to that of metal tubing might prevent future occurrences of this nature. It is
recommended that adequate safety precautions be taken and that face shields, rub-
ber gloves and protective clothing be worn as protection against hazardous
materials such as HCl or other acids in future decontamination operations of this
kind. Health and Safety should be consulted in reference to materials used in
decontamination.

HEALTH & SAFETY

cc: Supervision