ATTACHMENT B
72 HOUR FOLLOW-UP NOTIFICATION REPORT FORM
CONTRA COSTA HEALTH SERVICES

INSTRUCTIONS: A hardcopy and an electronic copy of this report is to be submitted for all Level 2 and 3 incidents or when requested by CCHS. See Attachment B-1 for suggestions regarding the type of information to be included in the report. Attach additional sheets as necessary.

Forward the completed form to:

ATTENTION: Randall L. Sawyer
Hazardous Materials Programs Director
Contra Costa Health Services
4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553

INCIDENT DATE: March 27, 2015
INCIDENT TIME: 02:50 AM
FACILITY: The Dow Chemical Company, 901 Loveridge Road, Pittsburg, CA. Dowicil manufacturing plant.

PERSON TO CONTACT FOR ADDITIONAL INFORMATION
Dale Backlund Phone number (925) 432-5508

I. SUMMARY OF EVENT:

The root cause investigation is still ongoing. This is preliminary data only and the RCI may change the initial findings.

The Dowicil Manufacturing facility produces an antimicrobial for consumer products as well as industrial uses.

On the morning of March 27th, 2015, the Dowicil plant experienced high pressure in a reactor/drier vessel. The high pressure resulted in a series of pressure relief devices being activated (rupture disks) releasing Dowicil and its related decomposition products to the atmosphere. As a result of the release, a visible plume could be observed and this warranted a precautionary activation of the Community Warning System as a Level II incident.

The rupture disks consist of a 6” disk set to activate at 60 psi and two 24” diameter disks set to activate at 100 psi. At this time, it appears all 3 rupture disks were “popped” or activated.

The root cause of the high pressure is still under investigation. We know that the Dowicil in the reactor had a decomposition reaction that resulted in a high pressure upset condition that caused the rupture disks to “pop.” During the post reaction process, methylene chloride is boiled off the Dowicil product and refluxed back to the reactor/drier vessel to provide temperature control. From our initial investigation, it appears that the reflux line to the reactor/drier may have plugged off, preventing the reflux of methylene chloride. Without the reflux to keep the Dowicil cool, once the methylene chloride is boiled off, there is
no heat sink, and the Dowicil product can heat up. It is believed that the Dowicil got hot enough to reach the decomposition temperature.

II. AGENCIES

The agencies notified include the following:
Contra Costa County Hazardous Materials Division (CWS Level II activation around 3:00 AM)
Contra Costa County Sheriff Department (CWS Activation)
Pittsburg Police Department (CWS Activation)

National Response Center (phone call at 3:45 AM)
State Emergency Response Center (phone call at 3:55 AM)

Bay Area Air Quality Management District
Coast Guard
California Department of Fish and Wildlife
California Occupational Safety and Health (Cal-OSHA)
Environmental Protection Agency

III. AGENCIES RESPONDING, INCLUDING CONTACT NAMES AND PHONE NUMBERS:

Contra Costa County Health Department:
0345 CCCHS phone contact w/ Maria Duazo (requested MSDS emailed)
0345 CCCHS phone call from Mike Dossey
0430 CCCHS Reps E. Dempsey, A. Springer on site
Phone calls with Mike Dossey at 11:30 AM and at various times throughout the day

Pittsburg Police Department:
0320 Phone contact w/ county Sherriff Dispatch Office (E. Riley).
0430 Pittsburg PD Reps J. Keslar and J. Elmore checked in and escorted to Spec Chem.

Cal-OSHA on site around noon (925) 602-2665
Terry Lee and Dirk Duchsabokor responded to the site.

Fish and Wildlife:
Phone call with Fish and Wildlife (11:14 AM and 11:19 AM) Wanted to know impact to fish and wildlife.
Lt Hyatt (707) 718-6217 called at 6:46 AM. Returned call at 11:19.
John Henderson (916)799-0588 called at 8:41 AM. Returned call at 11:14 AM.

BAAQMD:
Phone call with Chris Coelho at 9:21 AM (415) 760-0608 and various times throughout the day.

Cal EPA:
Chris Reiner at 7:54 AM, around 1:30, and follow up at 5:30 PM (415) 971-6911

IV. EMERGENCY RESPONSE ACTIONS:

Only Dow emergency response resources were used. Contra Costa fire did not respond and mutual aid was not activated.
The initial emergency incident was over in less than 7 minutes. The actual time to depressure the vessel is under investigation but expected to have only lasted 2-3 minutes. Once the vessel was depressurized, the site emergency response was over. Clean up of the materials around the area took 24 hours.

V. IDENTITY OF MATERIAL RELEASED AND ESTIMATED OR KNOWN QUANTITIES:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>2200</td>
</tr>
<tr>
<td>Methyl Chloride</td>
<td>67.6</td>
</tr>
<tr>
<td>Trimethylamine</td>
<td>59.4</td>
</tr>
<tr>
<td>Pyrimidine (Packing Group III Flammable Liquid per MSDS)</td>
<td>87.5</td>
</tr>
<tr>
<td>5-methyl pyrimidine (Packing Group III Flammable Solid per MSDS)</td>
<td>128.8</td>
</tr>
<tr>
<td>Balance = Heavies (not Dowicil nor HMTA, otherwise undefined)</td>
<td>2206.7</td>
</tr>
<tr>
<td>Total</td>
<td>4750</td>
</tr>
</tbody>
</table>

No Cal-ARP chemicals were involved in the release.

VI. METEOROLOGICAL CONDITIONS AT TIME OF EVENT including wind speed, direction, and temperature:

Wind was 1 mph out of the West. Temperature as 61 degrees F

VII. DESCRIPTION OF INJURIES:

There were no injuries reported either on site or off site. No off site odor complaints were noted either.

VIII. COMMUNITY IMPACT including number of off-site complaints, air sampling data during event, etc.:

Downwind monitoring should no signs of chemical contamination. The advisory was placed due to a visible release from the process. The materials never left the Dow property. The chemical deposition from the vapor plume was limited to about 300 yards downwind.

IX. INCIDENT INVESTIGATION RESULTS
Is the investigation of the incident complete at this time? ________Yes _X__No
If the answer is no, submit a 30 day final or interim report.

The contact person for the RCI is Dale Backlund and/or Robert Rhode.
If the answer is yes, complete the following:

X. SUMMARIZE INVESTIGATION RESULTS BELOW OR ATTACH COPY OF REPORT:

XI. SUMMARIZE PREVENTATIVE MEASURES TO BE TAKEN TO PREVENT RECURRENCE INCLUDING MILESTONE AND COMPLETION DATES FOR IMPLEMENTATION: