TO: R. Larson
FROM: Ken Goodwin
DATE: April 6, 1970
SUBJECT: Apollo 12 Alarms

Enclosed is the list of CSM/LM alarms that occurred during the flight of Apollo 12.

This list is intended to be added to the previous alarm list for Apollo 7 through Apollo 11.

Kenneth R. Goodwin, Jr.
System Test Group

Distribution:
J. Hansaway EG 412
G. Edmonds
MIT at MSC/KSC
<table>
<thead>
<tr>
<th>Alarm</th>
<th>Time (GET)</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>1105 - Downlink too fast</td>
<td>0:0:36</td>
<td>Power glitch due to electrical discharge</td>
</tr>
<tr>
<td>3777 - ICDU Fail Caused the ISS Warning</td>
<td>0:0:36</td>
<td></td>
</tr>
<tr>
<td>0777 - PIPA Fail caused the ISS Warning</td>
<td>0:11:36</td>
<td>Tumbling Platform</td>
</tr>
<tr>
<td>212 - PIPA Fail but PIPA is not being used</td>
<td>0:14:33</td>
<td>Exit P11</td>
</tr>
<tr>
<td>116 - Optics Switch altered before 15 sec zero time elapsed</td>
<td>0:51:21</td>
<td>Start of P52</td>
</tr>
<tr>
<td>20430 - Integ. abort due to subsurface state vector</td>
<td>0:52:54</td>
<td>Bad state vector, resultant of lost platform during liftoff.</td>
</tr>
<tr>
<td>407 - Auto Optics request - Trun. Angle greater than 50°.</td>
<td>2:23:41</td>
<td>Waiting for chosen star to come within FOV in P52.</td>
</tr>
<tr>
<td>116</td>
<td>6:3:01</td>
<td></td>
</tr>
<tr>
<td>407</td>
<td>6:4:45</td>
<td></td>
</tr>
<tr>
<td>407</td>
<td>37:36:00</td>
<td></td>
</tr>
<tr>
<td>116</td>
<td>55:09:09</td>
<td></td>
</tr>
<tr>
<td>122 Marking not called for</td>
<td>143:16:53</td>
<td>Beginning of P20</td>
</tr>
<tr>
<td>401 Desired gimbal angles yield gimbal lock</td>
<td>prior to 159:53:00</td>
<td>occurred on back side of Moon</td>
</tr>
<tr>
<td>407</td>
<td>164:58:46</td>
<td></td>
</tr>
<tr>
<td>116</td>
<td>189:35:21</td>
<td>P23</td>
</tr>
<tr>
<td>Alarm</td>
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<td>Cause</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>404-Target Out of View -</td>
<td>211:22:42</td>
<td>P52 - Star 32</td>
</tr>
<tr>
<td>407</td>
<td>211:23:50</td>
<td></td>
</tr>
<tr>
<td>114-Mark made but not desired</td>
<td>213:29:48</td>
<td>P23</td>
</tr>
<tr>
<td>212</td>
<td>290:10:13</td>
<td>Result of V35 - Test Lights</td>
</tr>
<tr>
<td>Alarm</td>
<td>Time (GET)</td>
<td>Cause</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1105-Downlink too fast</td>
<td>7:52:20</td>
<td>Power Up</td>
</tr>
<tr>
<td>212-PIPA fail but PIPA not being used</td>
<td>104:28:46</td>
<td>Result of V35</td>
</tr>
<tr>
<td>1106-Uplink too fast</td>
<td>106:45:01</td>
<td>Noise on uplink line due to cycling of DUA</td>
</tr>
<tr>
<td>112-Mark or mark reject not being accepted</td>
<td>110:57:01</td>
<td>P57</td>
</tr>
<tr>
<td>530-LOS not in Mode 2 coverage on lunar surface after 600 seconds</td>
<td>112:29:27</td>
<td>P22</td>
</tr>
<tr>
<td>1105-Downlink too fast</td>
<td>121:34:27</td>
<td>Result of power up to update the clock on lunar surface</td>
</tr>
<tr>
<td>212-PIPA fail but PIPA not being used</td>
<td>139:11:37</td>
<td>Result of V35</td>
</tr>
<tr>
<td>521-Could not read radar</td>
<td>between 142:29 and 143:20</td>
<td>Occurred on backside of moon in P20 as a result of breaking lock-on. This alarm has been eliminated for Apollo 14 and subsequent flights</td>
</tr>
</tbody>
</table>