MEMORANDUM

TO:       A/Administrator
FROM:     SG/Program Manager, San Marco C-2
           Physics and Astronomy Programs
SUBJECT:  San Marco C-2 (San Marco-4) Post Launch Report No. 1

The San Marco C-2 spacecraft, now designated San Marco-4, was successfully
launched by a Scout vehicle from the San Marco Platform on 18 February 1974 at
6:05 a.m. EDT. The launch occurred 2 hours 50 minutes into the 3-hour window due
to low cloud cover at the launch site. Vehicle performance was within 3 sigma,
however the achieved orbit was higher than planned and as follows:

<table>
<thead>
<tr>
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<th>NOMINAL</th>
<th>ACTUAL</th>
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<tbody>
<tr>
<td>Apogee (km)</td>
<td>850</td>
<td>930.5</td>
</tr>
<tr>
<td>Perigee (km)</td>
<td>228</td>
<td>234.5</td>
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<tr>
<td>Inclination (degrees)</td>
<td>2.9</td>
<td>2.9</td>
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<tr>
<td>Period (minutes)</td>
<td>95</td>
<td>96</td>
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All spacecraft subsystems have been checked and are functioning normally. The
protective caps for the two U.S. experiments were ejected and the Omegatron
experiment activated on 19 February. The neutral mass spectrometer was activated as
scheduled on 22 February after sufficient time to allow for spacecraft outgassing and to
avoid the possibility of corona occurring. Both instruments are performing properly and
worthwhile scientific data is being acquired.

The Italian air drag balance, which was activated shortly after launch, is not performing
properly. Investigative procedures are in process to determine the next course of action,
concerning this instrument.

Frank W. Guelano