

For Agenda of:

January 20, 1981

To: Board of Supervisors
From: Department of Airports
Subject: EXECUTIVE AIRPORT - DEVELOPMENT - FOURTH QUARTER NOISE MONITORING REPORT (OCTOBER, NOVEMBER AND DECEMBER 1980)

Noise Monitoring

In accordance with Recommendation 66 of the Executive Airport Master Plan, the Department of Airports has established a noise monitoring program at Sacramento Executive Airport. Noise monitors and computers have been located at the north, south and west perimeters of Executive Airport to record and evaluate noise in the vicinity of Runway 2-20 and Runway 12-30.

The attached Exhibits A, B and C identify Community Noise Equivalent Levels (CNEL) for each 24-hour period during the months of October, November and December 1980, as recorded near the north, south and west boundaries of Executive Airport. The critical noise level of 65-CNEL as set forth in the California Noise Regulations is also illustrated on these exhibits.

Table 1 summarizes the noise monitoring results at Executive Airport during the fourth quarter of 1980. The 65-CNEL was exceeded on seven occasions at Site #1 (south boundary), four occasions at Site #2 (north boundary) and 22 occasions at Site #3 (west boundary).

The ambient (background) noise level at Site #3 is significantly higher than that experienced at Sites 1 and 2. Although not conclusive at this time, preliminary analysis suggests that automobile traffic on Freeport Boulevard may be contributing to the higher recorded noise levels at Site #3.

The Department of Environmental Health has scheduled a noise analysis of Freeport Boulevard to determine the roadway noise level characteristics. This analysis should provide an indication of the degree of influence that automobile traffic along Freeport Boulevard may have on the noise monitor at Site #3.

Aircraft Noise Ordinance for Executive Airport

On September 2, 1980, the Sacramento City Council adopted City Ordinance No. 4412, Executive Airport Noise Restrictions, limiting use of the airport to aircraft with an FAA certificated or estimated take-off noise level of 80 EPNdB or less. The Board of Supervisors adopted a similar noise ordinance on September 25, 1980.

*next qtrly
Report due 4-21-81*

JAN 20 1981


During the fourth quarter 1980, the Department of Airports and County Counsel reviewed Ordinance enforcement procedures and documentation to assure proper format in the issuance of citations. This process is complete and enforcement officers are prepared to issue citations to persons operating aircraft in violation of the 80 EPNdB rule.

The Department of Airports has also completed a notification program designed to inform the widest possible population of aircraft operators who may be affected by the noise ordinance. The relative success of the notification program is expressed on Exhibit D which identifies the decline in departures by aircraft with known FAA certificated take-off noise levels in excess of 80 EPNdB during the third and fourth quarters of 1980.

Recommendation

The Department of Airports be directed to report back on April 21, 1981, regarding noise levels for the first quarter of 1981 at Executive Airport.

Respectfully submitted,


George W. McLaughlin
Director of Airports

I concur:

Brian H. Richter
County Executive

cc: City Clerk
County Executive
Asst. County Executive - Admin.
County Counsel
Department of Airports (2)
Executive Airport Advisory Committee

TABLE 1
 CNEL SUMMARY
 FOURTH QUARTER 1980

AVERAGE CNEL

	<u>October</u>	<u>November</u>	<u>December</u>	<u>4th Quarter</u>
Location 1	63.3	62.7	59.8	62.2
Location 2	62.8	59.6	57.7	60.6
Location 3	65.0	64.7	65.2	65.0

DAYS EXCEEDING 65-CNEL

	<u>October</u>	<u>November</u>	<u>December</u>
Location 1	4	3	0
Location 2	2	1	1
Location 3	<u>6</u>	<u>8</u>	<u>8</u>
Total	12	12	9
	(16% occurrence)	(15% occurrence)	(11% occurrence)

24 HOUR COMMUNITY NOISE EQUIVALENT LEVEL (CNEL)

EXHIBIT A
October, 1980

Location 1 —————
Location 2 - - - - -
Location 3 ○—○—○

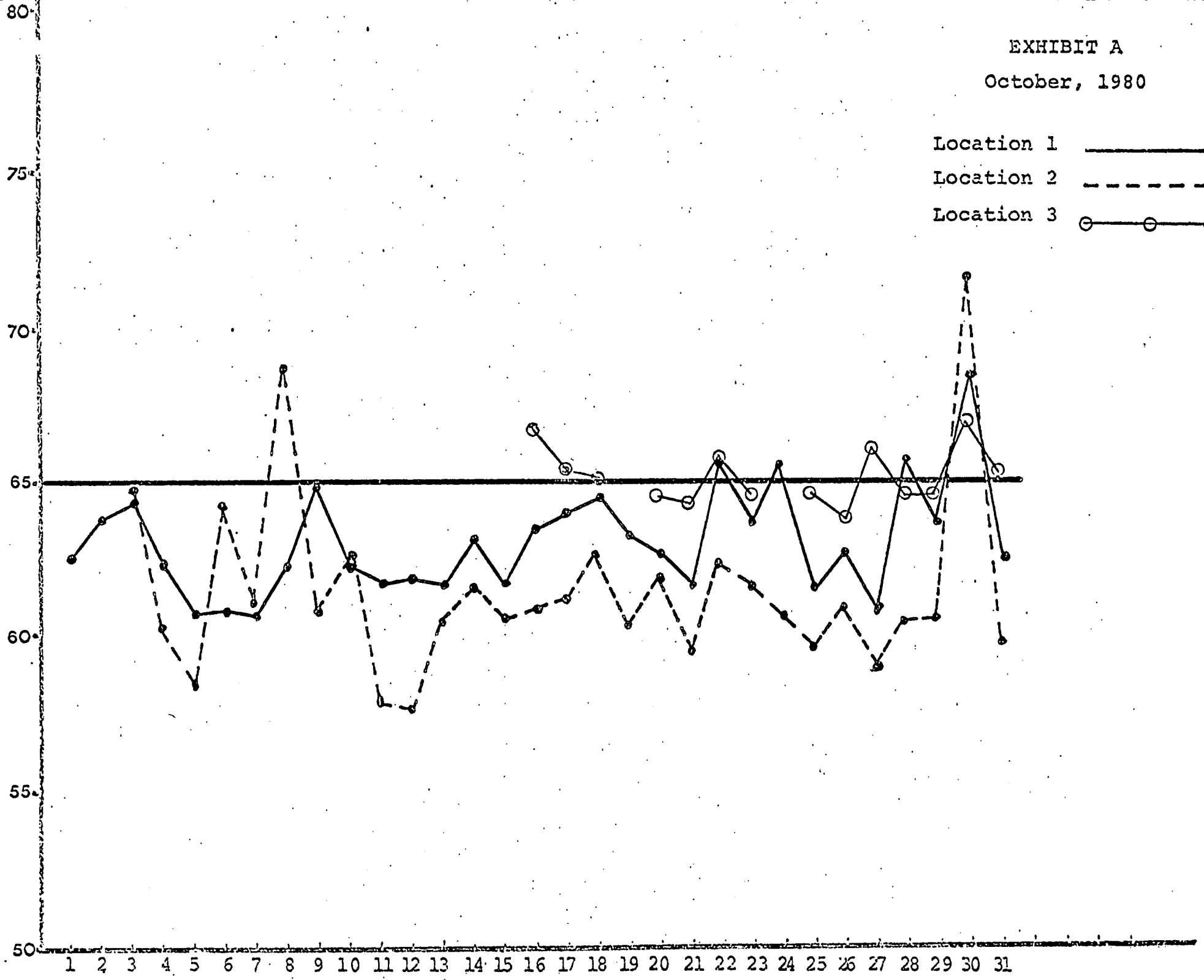


EXHIBIT B

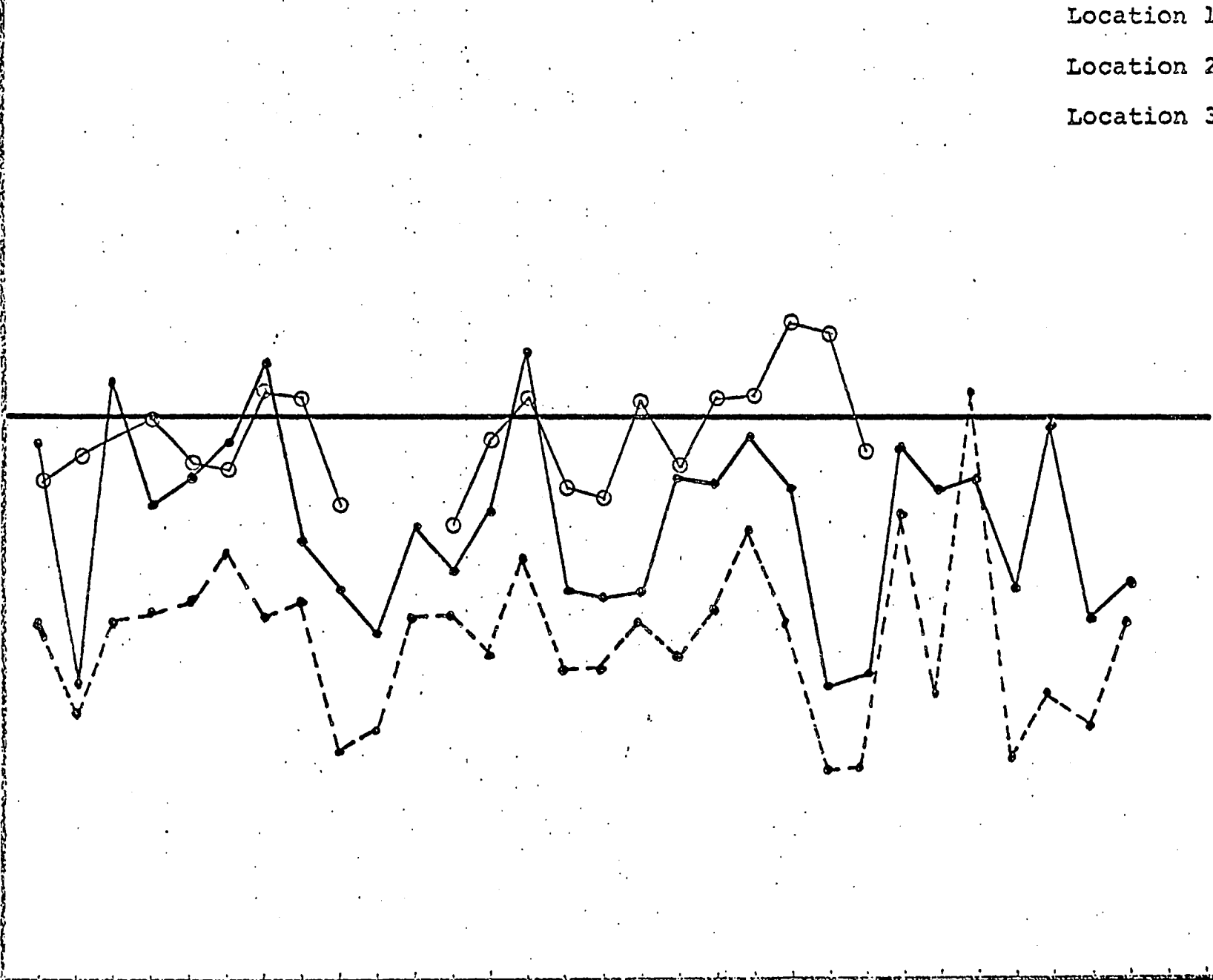
November, 1980

24 HOUR COMMUNITY NOISE EQUIVALENT LEVEL (CNEL)

80
75
70
65
60
55
50

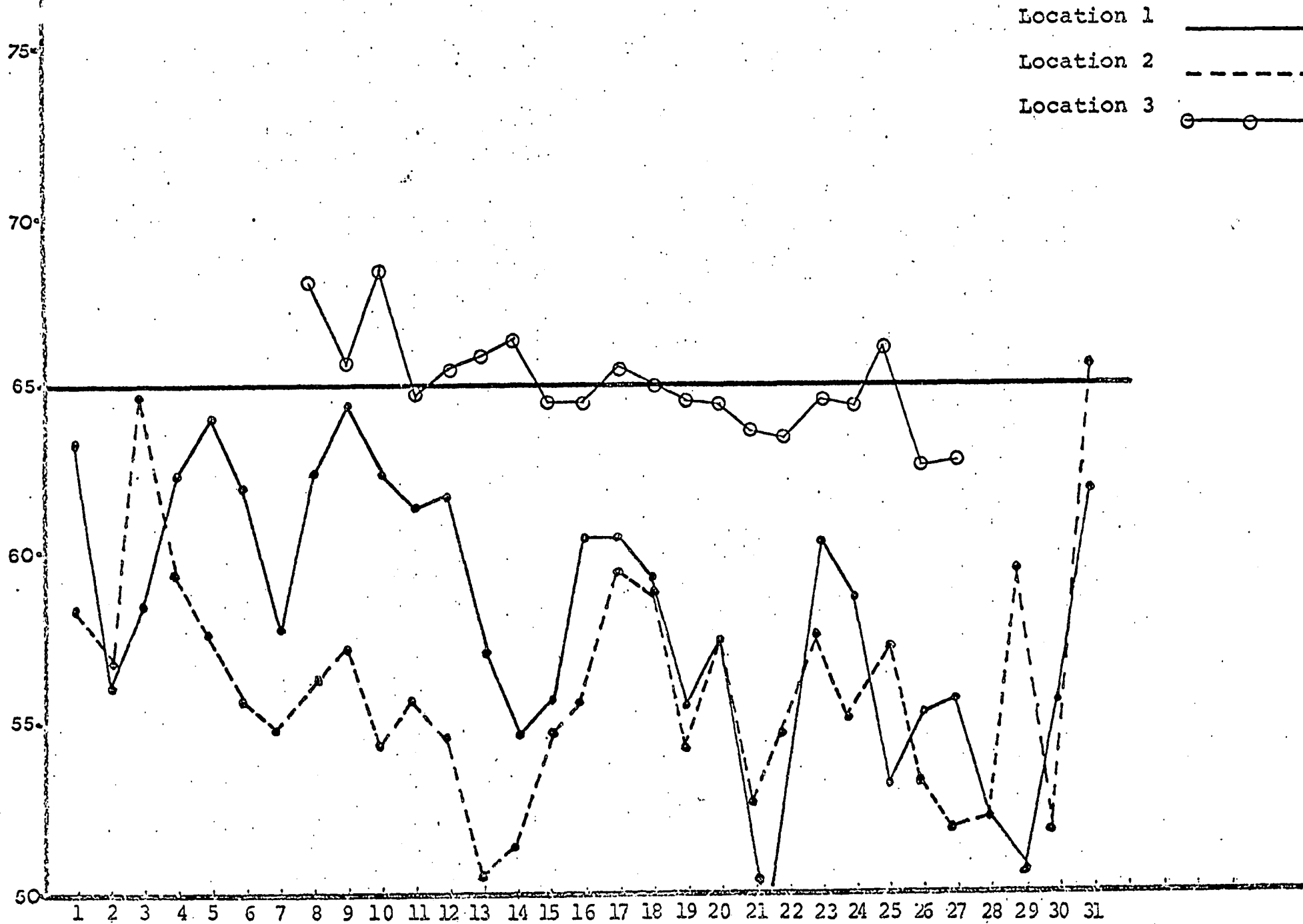
Location 1 _____
Location 2 - - - - -
Location 3 ○ - ○ - ○

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



24 HOUR COMMUNITY NOISE EQUIVALENT LEVEL (CNEL)

EXHIBIT C
December, 1980



DEPARTURES BY AIRCRAFT WITH KNOWN FAA
CERTIFICATED TAKEOFF NOISE LEVEL IN EXCESS
OF 80 EPNdB
3RD AND 4TH QUARTERS, 1980

EXHIBIT D

