Early surveys were often based on a local datum or reference system usually determined by astronomic observations. Because these surveys were usually performed to develop a nautical chart of a small area, sufficient observations were not obtained until 1900 to complete a national geodetic datum known as the U.S. Standard Datum. This datum contained approximately 2,500 survey points and was based on the Clarke 1866 reference ellipsoid. In 1913 the name was changed to the North American Datum upon adoption by the governments of Canada and Mexico. Geodetic survey station MEADES RANCH in Osborne County, Kansas, was selected as the reference point for this datum.

By the 1920's the U.S. Coast and Geodetic Survey had expanded the national network to more than 25,000 survey points. This network established limited geodetic control in areas which for the most part were not involved in the 1900 adjustment. These new observations then were incorporated into the readjustment known as the North American Datum of 1927.

Rapid advances in economic growth and scientific exploration in the United States after World War II resulted in an increasing need for accurate coordinate information. Development of light wave and microwave distance measuring equipment, aerial photography, and eventually satellite positioning systems has enhanced the capabilities of geodesists, surveyors, and cartographers to provide precise positional

HAWAII

Existing maps of Hawaii are based on the Old Hawaiian Datum (OHD) rather than the North American Datum of 1927. The following tables provide values for converting map data from the Old Hawaiian Datum to the North American Datum

OLD HAWAIIAN DATUM LATITUDE 19°30'00"

OHD Longitude			NAD 83 Latitude			NAD 83 Longitude			Difference (meters)	
Deg	Min	Sec	Deg	Min	Sec	Deg	Min	Sec	Lat	Long
154	00	00	19	29	49.13	153	59	50.05	334.14	289.98
154	07	30	19	29	49.13	154	07	20.05	334.18	290.16
154	15	00	19	29	49.13	154	14	50.04	334.23	290.35

OLD HAWAIIAN DATUM LATITUDE 19°37'30"

OHD Longitude			NAD 83 Latitude			NAD 83 Longitude			Difference (meters)	
Deg	Min	Sec	Deg	Min	Sec	Deg	Min	Sec	Lat	Long
154	00	00	19	37	19.11	153	59	50.06	334.99	289.71
154	07	30	19	37	19.10	154	07	20.05	335.04	289.89
154	15	00	19	37	19.10	154	14	50.05	335.09	290.05

OLD HAWAIIAN DATUM LATITUDE 19°45'00"

OHD Longitude			NAD 83 Latitude			NAD 83 Longitude			Difference (meters)	
Deg	Min	Sec	Deg	Min	Sec	Deg	Min	Sec	Lat	Long
154	00	00	19	44	49.08	153	59	50.06	335.87	289.37
154	07	30	19	44	49.08	154	07	20.05	335.91	289.56
154	15	00	19	44	49.08	154	14	50.05	335.95	289.74
154	22	30	19	44	49.07	154	22	20.04	335.99	289.93
154	30	00	19	44	49.07	154	29	50.03	336.03	290.11
154	37	30	19	44	49.07	154	37	20.03	336.07	290.29
154	45	00	19	44	49.07	154	44	50.03	336.20	290.15
154	52	30	19	44	49.06	154	52	20.04	336.39	289.98
155	00	00	19	44	49.06	154	59	50.04	336.48	290.09
155	07	30	19	44	49.05	155	07	20.03	336.64	290.21
155	15	00	19	44	49.05	155	14	50.02	336.65	290.53
155	22	30	19	44	49.05	155	22	20.01	336.76	290.77
155	30	00	19	44	49.05	155	29	50.00	336.69	291.17
155	37	30	19	44	49.05	155	37	20.00	[illegible]	[illegible]

OLD HAWAIIAN DATUM LATITUDE 19°52'30"

OHD Longitude			NAD 83 Latitude			NAD 83 Longitude			Difference (meters)	
Deg	Min	Sec	Deg	Min	Sec	Deg	Min	Sec	Lat	Long
154	00	00	19	52	19.05	153	59	50.06	336.72	289.10
154	07	30	19	52	19.05	154	07	20.06	336.76	289.29
154	15	00	19	52	19.05	154	14	50.05	336.80	289.48
154	22	30	19	52	19.05	154	22	20.04	336.84	289.66
154	30	00	19	52	19.05	154	29	50.04	336.88	289.85
154	37	30	19	52	19.04	154	37	20.05	337.16	289.36
154	45	00	19	52	19.03	154	44	50.05	337.20	289.54
154	52	30	19	52	19.03	154	52	20.04	337.30	289.62
155	00	00	19	52	19.03	154	59	50.04	337.31	289.79
155	07	30	19	52	19.03	155	07	20.03	337.47	290.02
155	15	00	19	52	19.02	155	14	50.02	337.71	290.35
155	22	30	19	52	19.02	155	22	20.01	337.69	290.61
155	30	00	19	52	19.02	155	29	50.01	337.76	290.70
155	37	30	19	52	19.02	155	37	20.00	337.70	290.91

Before the
Federal Communications Commission
Washington, D.C. 20554

Exhibit _____ Page _____

Client RRI/HONOLULU
Date 4-23-91
FCC from ____ Sec. ____ Pg. ____

PUBLIC NOTICE

Released: March 14, 1988

FCC INTERIM PROCEDURE FOR THE SPECIFICATION OF GEOGRAPHIC COORDINATES

Latitude and longitude coordinates (coordinates) are being changed slightly for all points in the United States. This is a result of the 1927 North American Datum (NAD27), on which North American coordinates are based, being replaced with the more accurate 1983 North American Datum (NAD83). This activity is authorized by the Office of Management and Budget and is being overseen by the Federal Geodetic Control Committee. Actual calculations are being performed by the National Geodetic Survey (NGS).

The Commission will eventually convert to use of NAD83 to maintain accuracy in our records and to maintain consistency with other government agencies and foreign administrations. The conversion to NAD83 will affect coordinates used to describe communication sites on authorizations, notifications, forms, rules, data bases, etc.

Current topographic maps such as the 7.5-minute quadrangle maps published by the Geological Survey which are often used by applicants to determine the coordinates of their site, specify NAD27 in the lower left corner. At

CERTIFICATE OF SERVICE

I, Dan J. Alpert, hereby certify that the forgoing document has been sent via Hand Delivery on May 18, 1993 to the following:

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