LATITUDE AND LONGITUDE CALCULATION WORKSHEET #2
WHEN USING ENGINEERS' SCALE (1:60)

SFUND RECORDS CTR
2385831

Site: NASCO EPA ID#: CAD 009158932

Aka: National Steel & Shipbuilding Company or NASSCO SSID:

Address: 2798 East Harbor Drive

City: San Diego State: CA ZIP Code: 92101

Site Reference Point: X near the intersection of 28th St. & Harbor Drive

Topo Map: Point Loma Township: N/A S Range: N/A W

Scale: 1:24,000 Map Date: 1967 Photorevised 1975 Section: N/A 1/4 ____ 1/4 ____ 1/4 ____

Map Datum: 1927 Meridian:

Coordinates from lower right (southeast) corner of 7.5-minute map:

Latitude: 32 ° 37 ' 30 " Longitude: 117 ° 07 ' 30 "

Coordinates from lower right (southeast) corner of 2.5-minute sub-map:

Latitude: 32 ° 40 ' 00 " Longitude: 117 ° 07 ' 30 "

Calculations: Latitude (7.5-minute Quadrangle Map)

A) Number of ruler divisions from bottom latitude line to Site: 270

B) Number of ruler divisions equal to 2.5 minutes of latitude: (454): 454

C) Divide divisions to site (A) by (B): 0.59471

D) Multiply (C) by 150 seconds: 89 . 21 "

E) Convert (D) to minutes/seconds 1 ' 29 . 21 "

60 seconds = 1 minute
120 seconds = 2 minutes

F) Add to starting latitude: 32 ° 40 ' 00 " + 0 ° 1 ' 29.21 " = 32 ° 41 ' 29.21 "

Calculations: Longitude (7.5-minute Quadrangle Map)

A) Number of ruler divisions from right longitude line to Site: 82

B) Number of ruler divisions equal to 2.5 minutes of longitude: (454): 454

C) Divide distance to Site (A) by (B): 0.18062

D) Multiply (C) by 150 seconds: 27 . 09 "

E) Convert (D) to minutes/seconds: 0 ' 27 . 09 "

60 seconds = 1 minute
120 seconds = 2 minutes

F) Add to starting longitude: 117 ° 07 ' 30 " + 0 ° 0 ' 27.09 " = 117 ° 07 ' 57.09 "

Enter final latitude/longitude calculation, rounding to the nearest 1/2 second (i.e., .0 or .5):

Final Latitude 32 ° 41 ' 29.00 " **Final Longitude** 117 ° 07 ' 57.00 "

Investigator: Gary Yao Date: 10/05/93

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