NOAA FORM 17-4A (4-81)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Form Approved OMB No. 0648-0025
Expires 12/31//2007

INTERIM ACTIVITY REPORTS AND FINAL REPORT

This report is required by Public Law 92-205; 85 Stat. 735; 145 U.S.C. 330b. Knowing and willful violation of any rule adopted under the authority of Section 2 of Public Law 92-205 shall subject the person violating such rule to a fine of not more than $10,000, upon conviction thereof.

NOAA FILE NUMBER

[X] INTERIM REPORT [ ] FINAL REPORT

Complete in accordance with instructions on reverse and forward one copy to:
National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
1315 East-West Highway SSMC-3 Room 11216
Silver Spring, MD 20910

REPORTING PERIOD
FROM 1/9/2024 TO 1/8/2025

MONTH	(a) NUMBER OF MODIFICATION DAYS	(b) NUMBER OF MODIFICATION DAYS PER MAJOR PURPOSE				(c) HOURS OF APPARATUS OPERATION BY TYPE		(d) TYPE AND AMOUNT OF AGENT USED				
		INCREASE PRECIPITATION	ALLEVIATE HAIL	ALLEVIATE FOG	OTHER	AIRBORNE	GROUND	SILVER IODIDE	CARBON DIOXIDE	UREA	SODIUM CHLORIDE	OTHER
JANUARY	0											
FEBRUARY	0											
MARCH	0											
APRIL	2				2 Cool Earth	≈18						SO_2 ≈ 11.5 kg
MAY	0											
JUNE	0											
JULY	4				4 Cool Earth	≈36						SO_2 ≈ 17.8 kg
AUGUST	2				2 Cool Earth	≈18						SO_2 ≈ 4.9 kg
SEPTEMBER	5				5 Cool Earth	≈45						SO_2 ≈ 12.1 kg
OCTOBER	6				6 Cool Earth	≈54						SO_2 ≈ 16.5 kg $CaCO_3$ ≈ 2 kg
NOVEMBER	3				3 Cool Earth	≈27						SO_2 ≈ 21.5 kg
DECEMBER	2				2 Cool Earth	≈18						SO_2 ≈ 10.8 kg
TOTAL	24 Ø	0	0	0	0	≈216 Ø	0	0	0	0	0	SO_2 ≈ 0 92 kg $CaCO_3$ ≈ 2 kg
TOTALS FOR FINAL REPORT												

DATE ON WHICH FINAL WEATHER MODIFICATION ACTIVITY OCCURRED *(For Final Report only.)*

CERTIFICATION: I certify that all statements in this report on this weather modification project are complete and correct to the best of my knowledge and are made in good faith.

NAME OF REPORTING PERSON: Lute Iseman

AFFILIATION: Make Sunsets Incorporated

SIGNATURE: Lute Iseman

STREET ADDRESS: 514 Americas Way #18412

OFFICIAL TITLE: founder

CITY: Box Elder | STATE: SD | ZIP CODE: 57719

DATE: 1/8/25

date	location	payload weight	payload substance	altitude
4/1/24	santa clara	1423	sulfur dioxide	22351
4/1/24	santa clara	1190	sulfur dioxide	31496
4/1/24	santa clara	1295	sulfur dioxide	23513
4/2/24	santa clara	625	sulfur dioxide	21151
4/2/24	santa clara	1615	sulfur dioxide	20542
4/2/24	santa clara	1715	sulfur dioxide	22011
4/2/24	santa clara	1721	sulfur dioxide	20290
4/2/24	santa clara	1900	sulfur dioxide	23795
7/1/24	santa clara	1710	sulfur dioxide	21,061
7/1/24	santa clara	1110	sulfur dioxide	25,398
7/2/24	santa clara	1195	sulfur dioxide	20066
7/2/24	santa clara	1785	sulfur dioxide	22005
7/10/24	santa clara	1745	sulfur dioxide	23250
7/10/24	santa clara	1890	sulfur dioxide	unknown
7/10/24	santa clara	1990	sulfur dioxide	unknown
7/25/24	santa clara	1500	sulfur dioxide	22222
7/25/24	santa clara	2000	sulfur dioxide	8175
7/25/24	santa clara	1400	sulfur dioxide	24261
7/25/24	santa clara	1465	sulfur dioxide	29883
8/7/24	santa clara	1655	sulfur dioxide	31,119
8/7/24	santa clara	1275	sulfur dioxide	31079
8/7/24	santa clara	1195	sulfur dioxide	30373
8/27/24	santa clara	680	sulfur dioxide	30028
9/14/24	alameda	890	sulfur dioxide	30710
9/14/24	alameda	1280	sulfur dioxide	6503
9/14/24	alameda	1030	sulfur dioxide	31053
9/20/24	alameda	3095	sulfur dioxide	31051
9/20/24	alameda	1385	sulfur dioxide	30587
9/20/24	alameda	1595	sulfur dioxide	27400
9/24/24	alameda	1310	sulfur dioxide	29561
9/24/24	alameda	1550	sulfur dioxide	28313
9/25/24	alameda	505	sulfur dioxide	6419
9/26/24	alameda	460	sulfur dioxide	6544
10/1/24	alameda	1160	sulfur dioxide	30809
10/18/24	alameda	1375	sulfur dioxide	26511
10/18/24	alameda	1515	sulfur dioxide	unknown
10/18/24	alameda	1500	sulfur dioxide	unknown
10/19/24	mare island	600	sulfur dioxide	5449
10/20/24	mare island	1135	sulfur dioxide	27872
10/22/24	alameda	1590	sulfur dioxide	31800
10/22/24	alameda	1595	sulfur dioxide	30982
10/22/24	alameda	1795	sulfur dioxide	28539

10/29/24	gulf of america	2000	calcium carbonate	unknown
11/15/24	alameda	2210	sulfur dioxide	31217
11/15/24	alameda	2730	sulfur dioxide	15712
11/15/24	alameda	1715	sulfur dioxide	33154
11/15/24	alameda	1830	sulfur dioxide	18269
11/15/24	alameda	1610	sulfur dioxide	27936
11/15/24	alameda	1550	sulfur dioxide	unknown
11/15/24	alameda	1530	sulfur dioxide	22071
11/26/24	alameda	95	sulfur dioxide	5981
11/26/24	alameda	385	sulfur dioxide	3913
11/26/24	alameda	800	sulfur dioxide	1880
11/27/24	alameda	1515	sulfur dioxide	28398
11/27/24	alameda	1400	sulfur dioxide	5702
11/27/24	alameda	1300	sulfur dioxide	30073
11/27/24	alameda	1315	sulfur dioxide	30851
11/27/24	alameda	1475	sulfur dioxide	28485
12/2/24	alameda	1445	sulfur dioxide	29450
12/2/24	alameda	1785	sulfur dioxide	21473
12/2/24	alameda	1615	sulfur dioxide	31993
12/19/24	alameda	1315	sulfur dioxide	30820
12/19/24	alameda	1695	sulfur dioxide	28780
12/19/24	alameda	1685	sulfur dioxide	31257
12/19/24	alameda	1195	sulfur dioxide	32821