NOAA FORM 17-4 (4-81) — U.S. DEPARTMENT OF COMMERCE — NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Form Approved OMB Control No. 0648-0025
Expires 05/31/2021

INITIAL REPORT ON WEATHER MODIFICATION ACTIVITIES

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.

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, WWMC-3, Rm 11216
Silver Spring, MD 20910

1. PROJECT OR ACTIVITY DESIGNATION, IF ANY
Upper Tuolumne River Weather Modification Project

2. DATES OF PROJECT
a. DATE FIRST ACTUAL WEATHER MODIFICATION ACTIVITY IS TO BE UNDERTAKEN: 11/1/2023
b. EXPECTED TERMINATION DATE OF WEATHER MODIFICATION ACTIVITIES: 4/30/2024

3. PURPOSE OF PROJECT OR ACTIVITY
Increase precipitation in select mountainous regions of central CA.

4. (a) SPONSOR

NAME	Jason Carkeet
AFFILIATION	Turlock & Modesto Irrigation District
PHONE NUMBER	209-833-8325
STREET ADDRESS	901 N Broadway, P.O. Box 949
CITY	Turlock
STATE	CA
ZIP CODE	95831

4. (b) OPERATOR

NAME	Jody Fischer
AFFILIATION	Weather Modification LLC
PHONE NUMBER	7012355500
STREET ADDRESS	3802 20th Street North
CITY	Fargo
STATE	ND
ZIP CODE	58102

5. TARGET AND CONTROL AREAS (See Instructions)

TARGET AREA		CONTROL AREA	
LOCATION	East-Central California, USA	LOCATION	NA
SIZE OF AREA	1615 SQ. MI	SIZE OF AREA	SQ. MI

6. DESCRIPTION OF WEATHER MODIFICATION APPARATUS, MODIFICATION AGENTS AND THEIR DISPERSAL RATES, THE TECHNIQUES EMPLOYED, ETC. (See Instructions)

Airborne glaciogenic seeding techniques will be used to treat the specified target areas in the Upper Tuolumne River Watershed. Seeding will be accomplished by the use of pyrotechnic flares. The aircraft will dispense silver iodide seeding agent at the rate of 16 (sixteen) grams of silver iodide over a period of about 4 (four) minutes or at the rate of 2 (two) grams of silver iodide over a period of about 1 (one) every minute when storm conditions are favorable. Seeding will be guided by the project meteorologist, furnished by Weather Modification LLC dba Weather Modification International (WMI).

7. LOG BOOKS *Enter name, affiliation, address, and telephone number of responsible individual from whom log books or other records may be obtained.*

NAME	Mr. Jake Van Ornum		
AFFILIATION	Weather Modification LLC	PHONE NUMBER	(701) 235-5500
STREET ADDRESS	3802 20th Street North		
CITY	Fargo	STATE	ND
		ZIP CODE	58102

8. SAFETY AND ENVIRONMENT

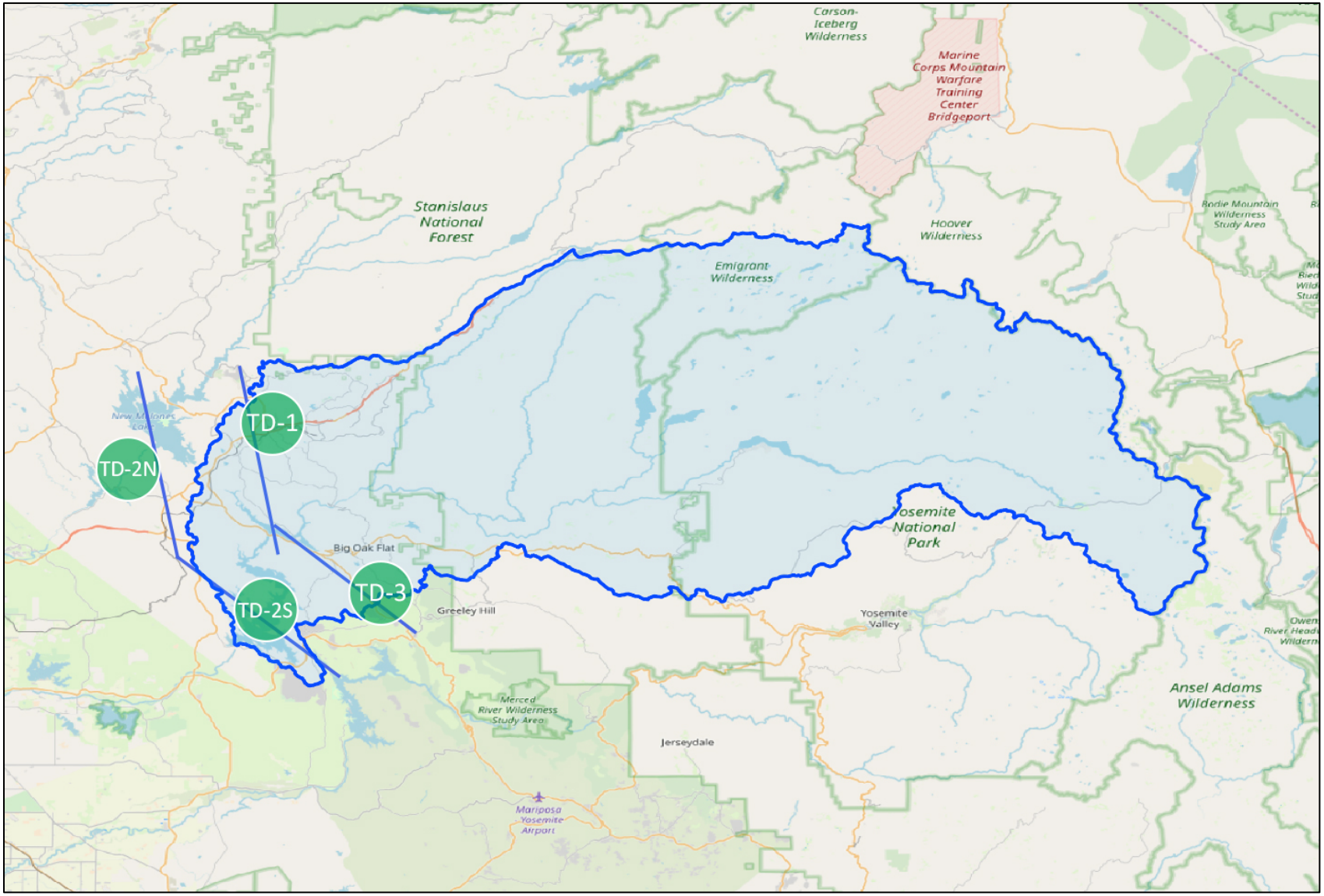
☐ YES	☑ NO	Has an Environmental Impact Statement, Federal or State, been filed? If yes, please furnish a copy as applicable.
☑ YES	☐ NO	Have provisions been made to acquire the latest forecasts, advisories, warnings, etc., of the National Weather Service, Forest Service, or others when issued prior to and during operations? If yes, please specify on a separate sheet.
☑ YES	☐ NO	Have any safety procedures (*operational constraints, provisions for suspension of operations, monitoring methods, etc.*) and any environmental guidelines (*related to the possible effects of the operations*) been included in the operational plans? If yes, please furnish copies or a description of the specific procedures and guidelines.

9. OPTIONAL REMARKS (See instructions. Use Separate Sheet).

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	Jake Van Ornum		
AFFILIATION	Weather Modification LLC	SIGNATURE	
STREET ADDRESS	3802 20th Street North	OFFICIAL TITLE	Client Services Assistant
CITY	Fargo	STATE	ND
ZIP CODE	58102	DATE	10/17/2023
PHONE NUMBER	(701) 235-5500		

TID TARGET AREA



WEATHER MODIFICATION
INTERNATIONAL

December 8, 2023

National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
1315 East-West Highway, #10339
Silver Springs, MD 20910-3282

To Whom It May Concern:

Weather Modification LLC dba Weather Modification International (WMI) is pleased to submit the enclosed with compliance with the National Oceanic and Atmospheric Administration's weather modification activities reporting requirements (P.L. 205, 92nd, Congress). Below is a summary of each 17-4 Form and any additional information and/or documents that are included.

1. Upper Tuolumne River Weather Modification Project

Item 5: Aircraft operations – please see enclosed map.

Item 8: WMI is not aware of any EIS or EA conducted for this program. Additional information regarding this can be obtained from the client.

Contact Information: Mr. Jason Carkeet (209) 883-8325
Turlock Irrigation District
901 North Broadway
P.O. Box 949, Turlock CA 95381

Provisions will be made to acquire the latest weather information, including advisories, watches, and warnings from the National Weather Service. Snowpack and water storage levels will be monitored by both WMI personnel and the client. This information will be routinely communicated between both parties regarding seeding suspension and/or termination of operations.

Item 9: No additional comments.

2. Medicine Bow / Sierra Madre Weather Modification Project

Item 5: Airborne operations. Please see the attached map for location of proposed aircraft flight tracks. The tracks chosen will vary depending upon prevailing wind direction at the seeding altitude.

Item 8: WMI is not aware of any EIS or EA conducted for this program. Additional information regarding this can be obtained from the client.

WEATHER MODIFICATION
INTERNATIONAL

Contact Information: Ms. Julie Gondzar (307) 777-7626
Wyoming Water Development Office
6920 Yellowtail Road
Cheyenne, WY 82002

Provisions have been made to acquire the latest weather information, including advisories, watches, and warnings from the National Weather Service. In addition, project-specific high-resolution numerical modeling will be used to guide and inform seeding operations.

Operational suspension criteria have been developed and refined in concert with the Wyoming Water Development Office.

Item 9: No additional comments.

3. WY Aerial Weather Modification Project

Item 5: Airborne operations. Please see the attached map for location of proposed aircraft flight tracks. The tracks chosen will vary depending upon prevailing wind direction at the seeding altitude.

Item 8: WMI is not aware of any EIS or EA conducted for this program. Additional information regarding this can be obtained from the client.

Contact Information: Ms. Julie Gondzar (307) 777-7626
Wyoming Water Development Office
6920 Yellowtail Road
Cheyenne, WY 82002

Provisions have been made to acquire the latest weather information, including advisories, watches, and warnings from the National Weather Service. In addition, project-specific high-resolution numerical modeling will be used to guide and inform seeding operations.

Operational suspension criteria have been developed and refined in concert with the Wyoming Water Development Office.

Item 9: No additional comments.

4. Wind River Range Weather Modification Project (WRRWMP)

Item 5: Ground-based operations- Please enclosed map for locations of the seeding agent release sites.

WEATHER MODIFICATION
INTERNATIONAL

Item 8: WMI is not aware of any EIS or EA conducted for this program. Additional information regarding this can be obtained from the client.

Contact Information: Ms. Julie Gondzar (307) 777-7626
Wyoming Water Development Office
6920 Yellowtail Road
Cheyenne, WY 82002

Provisions have been made to acquire the latest weather information, including advisories, watches, and warnings from the National Weather Service. In addition, project upper air soundings made from Pinedale, Wyoming, will be transmitted in real-time to the NWS offices in Cheyenne and Riverton, WY.

Operational suspension criteria have been developed and refined in conjunction with the Wyoming Water Development Office and the project interagency Technical Advisory Team.

Item 9: No additional comments.

If you have any questions please do not hesitate to contact me by telephone at: (651) 287-2107 or by email at jvanornum@weathermodification.com

Sincerely,

Jake Van Ornum
Client Services Assistant