



Oxy USA Inc.
1600 Gehrig Drive
Midland, TX 79706

February 20, 2024

State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division, District II
811 S. First St.
Artesia, NM 88210

Re: Mesa Verde East Recycling Facility (1RF-014) and Containments Registration Modification

To Whom It May Concern,

Oxy USA Inc. submits the enclosed C-147 form and supporting documents for a modification to the existing recycling facility registration. In accordance with *NMAC 19.15.34.16*, *Oxy USA Inc.* requests a variance to the Design and Construction Specifications for a Recycling Containment (19.15.34.12), Section E. Netting. In lieu of the existing bird netting, Oxy USA Inc. requests approval to use an audible bird deterrent as an adequate measure for the protection of wildlife, including migratory birds, for the 60,000 bbl ASTs described in the modification, dated January 25, 2019. Oxy USA Inc. will continue to inspect for and report any impacted wildlife or migratory birds as required.

See the supporting documents submitted via NMOCD Online including the variance description and bird deterrent manufacturer's manual. For original site plans, please refer to the facility's original registration (C-147), OCD Registration Number 1RF-014, and the modifications to registration dated January 25, 2019.

Should you have any questions or require additional information, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Justin Steinmann", with a stylized flourish at the end.

Justin Steinmann
ENVIRONMENTAL ADVISOR, WASTE AND WATER
OXY USA INC.

✉ Justin_steinmann@oxy.com

☎ (713) 350-4633

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☐ Permit ☐ Registration
☒ Modification ☐ Extension
☐ Closure ☐ Other (explain) _____

* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Oxy USA Inc. (For multiple operators attach page with information) OGRID #: 16696
Address: 1600 Gehrig Drive, Midland TX 79706
Facility or well name (include API# if associated with a well): Mesa Verde East Recycling Facility and Containment
OCD Permit Number: 1RF-014 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr K Section 18 Township 24S Range 32E County: Lea
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 32.214192 Longitude -103.715251 NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☒ Plugging *
**The re-use of produced water may NOT be used until fresh water zones are cased and cemented*
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*
☒ Fluid Storage
☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____
☐ For multiple or additional recycling containments, attach design and location information of each containment
☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: _____

3.

☒ **Recycling Containment:** Mesa Verde East Containment 1RF-014
☒ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 32.214192 Longitude -103.715251 NAD83
☒ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 60 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 251,000 bbl Dimensions: L 461' x W 431'30" x D 16'
☐ Recycling Containment Closure Completion Date: _____

4.

Bonding:

- ☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)
- ☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ _____ (work on these facilities cannot commence until bonding amounts are approved)
- ☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify 6 ft. chain-link with barbed wire top

6.

Signs:

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

Within a 100-year floodplain. FEMA map

☐ Yes ☒ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

9.

Recycling Facility and/or Containment Checklist:**Instructions:** Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☒ Design Plan - based upon the appropriate requirements.
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☒ Closure Plan - based upon the appropriate requirements.
- ☒ Site Specific Groundwater Data -
- ☒ Siting Criteria Compliance Demonstrations -
- ☒ Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10.

Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Justin Steinmann

Signature: _____

e-mail address: Justin_Steinmann@oxy.comTitle: Environmental AdvisorDate: 02/20/2024Telephone: (713) 350-4633

11.

OCD Representative Signature: Victoria Venegas Approval Date: 03/04/2024Title: Environmental SpecialistOCD Permit Number: 1RF-14☒ OCD Conditions _____☐ Additional OCD Conditions on Attachment

selected recordings in a sequential order. *The Random Mode is recommended to keep birds from adapting to a preset pattern of sounds.* To operate the unit in Random mode, set switch **5** in **Mode settings** as follows:

Switch 5	Mode
ON	Random mode ON
OFF	Random mode OFF

PROGRAMMING EXAMPLE

Recording Switches:	Results
1, 3, 5 and 6 to "ON" position	Plays Bird 1, 3, 5 & 6

Mode Switches

1 = "OFF" position	
2 = "ON" position	(Medium), every 1 to 4 minutes
3 = "ON" position	
4 = "OFF" position	Operates during daylight hours only
5 = "ON" position	In random, non-sequential order

VOLUME CONTROL

The unit has a volume control dial on the front panel of the unit. Turning the dial toward low will result in reduced sound output and rotating the dial toward high will result in an increase in sound output.

CAUTION: Take care when turning the dial since the unit may be in an inactive state when the dial is rotated. It could then reactivate at a very high level of sound which could be painful to your ears.

POWER SWITCH

The power switch enables the unit to operate. Slide the switch to the ON position to start the unit. If you turn the unit OFF, be sure to leave it off for about 30 seconds before turning it back on to allow the electronics to properly reset.

TROUBLESHOOTING

PROBLEM	SOLUTION
Unit is on, but no sound is heard	<ul style="list-style-type: none"> • Check volume settings. • Check time of operation settings. • Check that at least one bird is selected to play.
Unit is on, but plays the same bird over and over, regardless of settings	Reset the unit by turning it off for 30 seconds and then back on.
Unit is not operating properly in the DAY or NIGHT mode	<ul style="list-style-type: none"> • Double check Mode switch settings. • Make sure photocell is not obstructed. • Make sure the photocell is not affected by bright lights in either the front or the back of the unit.
Unit does not function properly when connected to a 12 volt battery	<ul style="list-style-type: none"> • Check battery condition. • Turn power switch on unit to the OFF position. Reconnect the battery, wait 30 seconds, then switch the unit back on.

LIMITED WARRANTY

IF YOU ARE NOT COMPLETELY SATISFIED, CONTACT THE PLACE OF PURCHASE OR OUR CUSTOMER SERVICE DEPARTMENT WITHIN 1 YEAR OF YOUR DATE OF PURCHASE FOR PROMPT AND COURTEOUS REPLACEMENT, REPAIR OR REFUND.

BIRD-X INC'S LIABILITY HEREUNDER SHALL BE LIMITED TO REFUNDING THE PURCHASE PRICE PAID BY CUSTOMER OR REPLACING THE PRODUCT, IN BIRD-X'S SOLE DISCRETION, AND UNDER NO CIRCUMSTANCES SHALL BIRD-X INC BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES, OF ANY NATURE WHATSOEVER, ARISING FROM THE CUSTOMER'S USE OR OPERATION OF THE PRODUCT; PROVIDED, HOWEVER, THAT THIS LIMITATION MAY BE LIMITED BY STATE LAW.

EXCEPT FOR THE EXPRESS ONE-YEAR LIMITED WARRANTY SPECIFICALLY DESCRIBED HEREIN, BIRD-X INC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING TO THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS; AND THE EXPRESS WARRANTIES ARE IN LIEU OF ALL OBLIGATIONS OR LIABILITIES ON THE PART OF BIRD-X INC ARISING OUT OF OR IN CONNECTION WITH THE SALE, USE, OR OPERATION OF THE PRODUCT.



Bird-X, Inc.
300 N. Oakley Blvd.
Chicago, IL 60612
312.226.2473 • solutions@bird-x.com

BIRD-X MEGABLASTER

PRIOR TO INSTALLATION

Your complete Bird-X Mega-Blaster kit includes a control unit, 40 watt solar panel, battery cable with clips and a 20 speaker tower. Open the control unit by lifting the two latches on the side of the enclosure.



Cable Strain Relief

Prior to operation, route the speaker and power cables from their respective jacks on the control panel down through the cable strain relief in the lower part of the enclosure.

IMPORTANT: Be certain that the power switch is in the OFF position and the volume control is set to the minimum (LOW) volume level (counterclockwise) as shown in Fig. 1 when powering up the unit.



Fig. 1

SETUP AND INSTALLATION

- 1) Use the mounting hardware (included) to mount the control unit box to a wall, post, pole or other vertical surface.
- 2) Attach the battery cable assembly to a 12V battery (not included) matching the positive and negative terminals. The other end of the cable comes pre-installed into the power terminal block. Attach the



Complete system shown mounted on a pipe with solar panel.

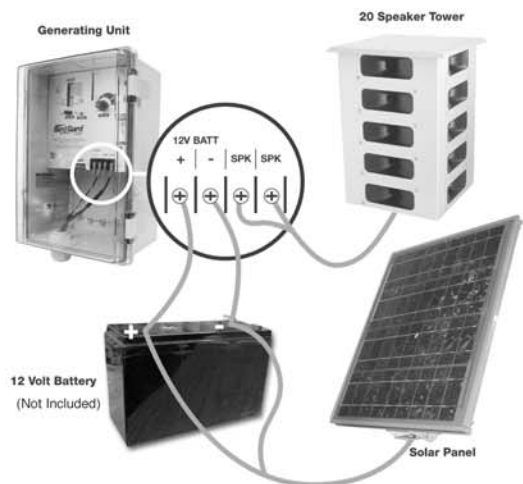


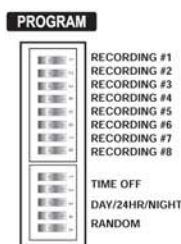
Fig. 2 Wiring Setup Diagram

two speaker wires from the 20 speaker tower to the speaker terminals on the generating unit. Connect the solar panel to the battery matching the positive and negative terminals on both ends. (Fig. 2)

- 3) It is recommended to mount the 20 speaker tower on a pole or surface that is aimed directly and at the same level as the infected area.
- 4) Set the Recording switches, Mode Setting switches, Time-Off switches, Time of Operation switches and Random Operation switches to the desired settings. (See PROGRAMMING YOUR MEGABLASTER for complete details on how to program your bird repeller).
- 5) Make sure the volume setting is set to **LOW** (all the way counterclockwise).
- 6) Slide the power switch to the **ON** position. The unit may take a few seconds before starting.
- 7) Adjust the volume to the desired level.
- 8) Close the cover and latch shut.

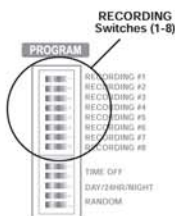
PROGRAMMING YOUR MEGABLASTER

To program your Megablaster unit you will need a small screwdriver, toothpick, or other small, rigid



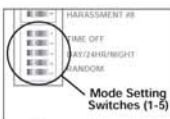
object to toggle the switches in the switch array. The switch array is the switch bank located in the top left corner of the unit (under "PROGRAM"). A switch is **ON** if the switch is pressed down on the right-hand side. The switch is **OFF** if the left side is pressed down.

RECORDING SETTING SWITCHES



The Recording switches are the first eight switches in the switch array. Each switch has a recording number to the right of it that corresponds with the bird descriptions listed on the foil label inside the unit.

MODE SETTING SWITCHES



The Mode Setting switches set the various modes of operation: such as the amount of time between playing bird distress calls, when the unit will operate (day only, night only, or 24 hours), and whether the unit will operate in the Random Mode or Normal Mode.

Switch	Mode or Function
1	Sets the Time-Off Period
2	Sets the Time-Off Period
3	Sets the Time the unit plays
4	Sets the Time the unit plays
5	Turns Random Mode On or Off

TIME-OFF SWITCHES



The two Time-Off switches are located just below the Recording switches in the switch array. When the unit is set to one of the various Time-Off modes, the unit will delay a number of seconds or minutes between recorded sounds. Please note that the unit will play all of the selected recordings (either sequentially or non-sequentially, depending on the Random Mode) then it will go into a delay. The time the unit stays off depends on the Time-Off and the Random Mode settings. If the unit is operating in

Random Mode, the unit will delay anywhere from the minimum value to the maximum value for that time-off setting. If the unit is not in Random Mode, it will delay only the minimum value. To set the Time-Off period (or delay interval), use the following settings on switches 1 and 2 in the mode function settings

Switch 1	Switch 2	Time Off Period
ON	OFF	Short
OFF	ON	Medium
ON	ON	Long
OFF	OFF	Extra Long

Mode	Min	Max
Short	17 sec	50 sec
Medium	1 min	4:15 min
Long	5:00 min	10:00 min
XLong	10 min	30 min

TIME OF OPERATION SWITCHES



The two "Day/24hour/Night" switches are located just under the Time-Off switches in the switch array.

'Night Mode' operates the unit at night and 'Day Mode' operates the unit during the day. However, the photocell that senses the sunlight is susceptible to bright lights. Take care not to have bright lights shining towards the unit since this can prevent the unit from operating properly. In 24-hour mode, the unit will operate continuously, regardless of the time of day. To set the time period for the unit to operate set switches 3 and 4 in the Mode Function settings to the following:

Switch 3	Switch 4	Mode
ON	OFF	Day Only
OFF	ON	24-Hour
ON	ON	Night Only
OFF	OFF	also Night Only

RANDOM OPERATION SWITCH

The "Random" switch is the bottom switch in the switch array. When operating in Random Mode, the unit will randomly play the selected recordings in non-sequential order. When the unit is not operating in the Random Mode, the unit will play the

EFFECTIVE WIDE-AREA BIRD CONTROL!

Mega Blaster PRO sonic bird repeller covers 30 acres!



Mega Blaster PRO uses intermittent distress calls to create a "danger zone" that frightens infesting birds away for good.

PREDATOR cries help scare all the birds.



- NEMA Rated Case
- Crystal-Clear Digital Sounds

- Laughing Gull
- Ring-Billed Gull
- Herring Gull
- California Gull
- Black-Headed Gull
- Glaucous-Winged Gull
- Double Crested Cormorant
- Marsh Hawk

**Perfect for Landfills, Airfields, Fish Farms,
Farm Fields or any multi-acre facility.**

Our most powerful system features two high-output amplifiers that drive our specially-designed 20 speaker tower. The intense sound output covers up to 30 acres (12 hectares).

It features solid-state electronics mounted inside a NEMA-type control box, suitable for most any application.

The generating unit mounts easily to a post or pole using the included hardware. The unit comes pre-recorded in four different configurations for the most common bird infestations.

Choose any or all of the 8 sounds, including predators to give the birds even more of a sense of danger. Customize by choosing volume and silent time between sounds.

Mega Blaster PRO

Complete system includes the generating unit with two built-in high-output amplifiers, 20-speaker tower with audio cables, 40 watt solar panel, battery clips and all mounting hardware.

CONFIGURATIONS AVAILABLE:

- Agricultural
MEGA-AG
- Crow / Raven
MEGA-CROW
- Woodpecker
MEGA-WP
- Marine / Gull
MEGA-MAR



The Bird Control 'X'-Perts

NOTE: This unit is capable of sound output up to 125 decibels. **HEARING PROTECTION IS RECOMMENDED.**

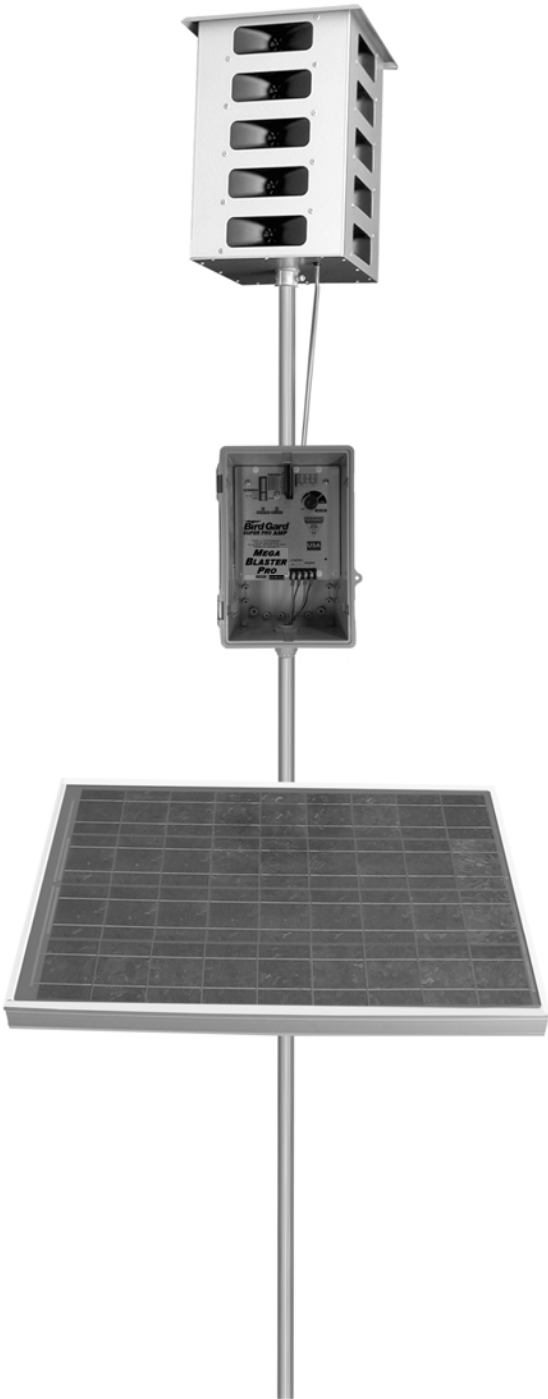


MEGA BLASTER PRO



User's Manual

Overview	2
Bird Control Management Guidelines	3
Materials List	4
Assembly	5
Control Unit	5
Solar Panel	5
Placement	6
Building a Mounting Pole or Mast	7
Installation	8
20-Speaker Tower	8
Solar Panel	8
Control Box	9
Solar Panel Connections	9
Settings	10
Recordings	10
Mode Settings	10
Warranty	12



Overview

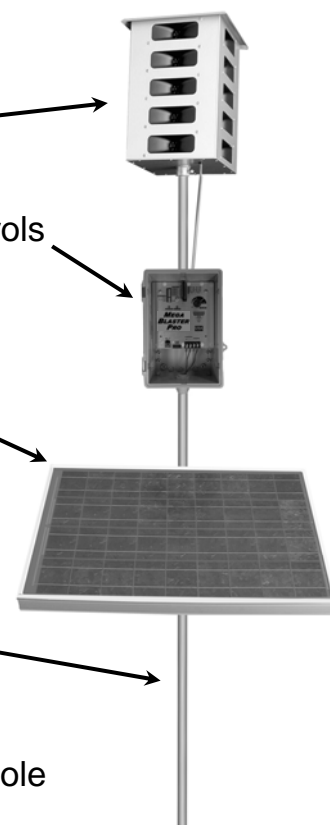
The Bird-X Mega Blaster Pro utilizes the innate power of the natural survival instincts of birds to effectively repel them. Digital recordings of distressed and alarmed birds, along with the sounds made by their natural predators are broadcast through high fidelity weather-resistant speakers over the top of areas. This action triggers a primal fear and flee response. Pest birds soon relocate to where they can feed without feeling threatened.

Your Bird-X Mega Blaster Pro system consists of:

20-Speaker Tower broadcasts the bird sounds

Control Unit produces the bird sounds and contains all operational controls

Solar Panel recharges the 12-volt deep cycle battery



Items needed but not included:

- (1) **Mounting Pole or Mast** tall enough to raise the 20-Speaker Tower at least 5 feet above the top of the areas, trees or other obstructions
- (1) **12-volt Deep Cycle Battery** (RV/Marine) Group 27 or larger wet cell
- (1) **T-Post** or similar (Optional) may be needed to support the mounting pole
- (1) **Bailing Wire or zip-tie** (Optional) to secure the Mounting Pole to the T-Post

CAUTION: THE MEGA BLASTER PRO IS CAPABLE OF PRODUCING SOUNDS UP TO 125 DECIBELS. PROPER HEARING PROTECTION MUST BE WORN ANYTIME THE UNIT IS TURNED ON.



Bird Control Management Guidelines





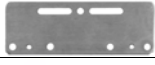





An active bird control management program is a key to successfully repelling pest birds. Bird feeding patterns may take several days or weeks to break. Follow all suggestions for maximum effectiveness. Read all instructions prior to installation.

For best results:

- **It is extremely important to fully protect your entire area from birds.** Any areas not fully protected will allow birds to begin feeding at the fringes of the sound coverage. They will soon become bolder and learn the sounds are nothing to fear. This will cause the effectiveness to diminish. Complete Bird-X product coverage forces birds to leave the area entirely.
- Install the Mega Blaster Pro unit at least two weeks before birds are attracted to your area. It is much easier to keep birds away before they have found a food source than it is to repel them once they have developed a feeding pattern.
- Most birds begin feeding from the perimeter of an area. Place Mega Blaster Pro units so the sound protection covers past the edges of the area.
- Birds will often use tall trees for roosting and observation. If birds are in bordering trees it is necessary to position the units so the sound protection covers the trees as well.
- Mount the 20-Speaker Tower at least five feet above trees, areas and structures for maximum coverage. The higher the better. Sound will disperse or reflect off structures or foliage. Mount control unit out of direct sun, if possible.
- When first installed, run Mega Blaster Pro units at FULL volume and on SHORT time off periods. This ensures maximum "bird stress" and creates a hostile environment.
- Watch for changes in bird activity and adjust the location of your Mega Blaster Pro unit if needed.
- **Check the battery and unit settings often to insure continuous bird control. Be certain that the system is not turned down or has a dead battery. Field hands or harvesters may turn down the volume.**
- Changing settings and switches often helps to prevent bird habituation. Periodically change the switch settings of the eight sounds (turning them ON or OFF). NEVER turn OFF the distress calls of the target birds you are trying to repel and always keep at least one predator bird sound turned ON.
- If different bird species enter the protected area and begin causing damage contact us immediately for an updated Sound Recording Card designed to repel the new invading birds.
- Remember that the Mega Blaster Pro system is a management tool, and should be used as part of your overall bird control strategy, sometimes in conjunction with other bird control techniques and devices.

Be aware that under extreme drought or other adverse conditions, birds will disregard all deterrents and risks in order to survive

Materials List

Item	Qty		Notes
Mega Blaster Pro Control Box	1		
Sound Recording Card	1		Pre-installed in control box
20-Speaker Tower	1		
Control Box Mounting U-Bolts	2		1/4" x 1" x 2"
Control Box Brackets	2		
40-Watt Solar Panel	1		
Solar Panel Mounting Bracket	1		
Solar Panel Mounting U-Bolts	2		1/4" x 1-1/8" x 2"
Control Box Connector Cable	1		2 Wire, 4 ft. Long
Battery Box	1		

Assembly

Note: You will find it easier to pre-assemble the following components prior to installation in the field.

Control Unit

1. Lay the Control Unit face down
2. Attach the two Control Box Mounting Brackets to the back with the included screws (Figure 1)

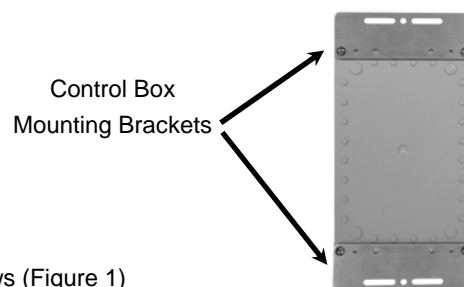


Figure 1

Solar Panel

3. Install the two Solar Panel Mounting U-Bolts in the Head of the Solar Panel Mounting Bracket (Figure 2)
4. Loosen, but do not remove the Carriage Bolts securing the movable Clamp Plates on the Solar Panel Mount Bracket
5. Lay the solar panel on a flat surface with the glass side down
6. Lay the Mounting Arm across the Solar Panel with the Clamp Plates down. Position the Mounting Arm at an angle so the Clamp Plates slide under the lip of the Solar Panel (Figure 3A)
7. Rotate the Mounting Arm and secure it to the Solar Panel by tightening the Carriage Bolts (Figure 3B)

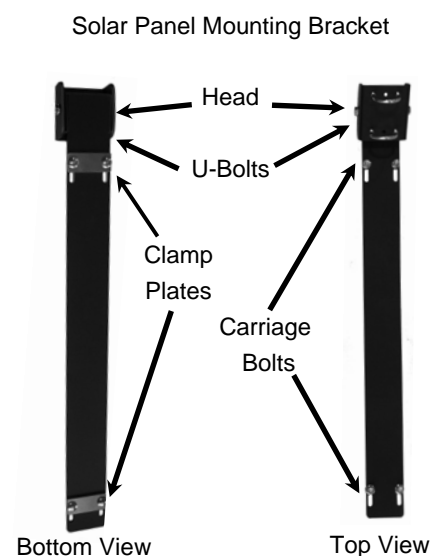


Figure 2

Clamp Plates slide under the lip of the Solar Panel

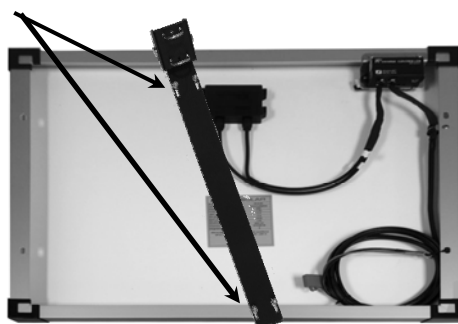


Figure 3A

Rotate Mounting Arm and tighten Carriage Bolts

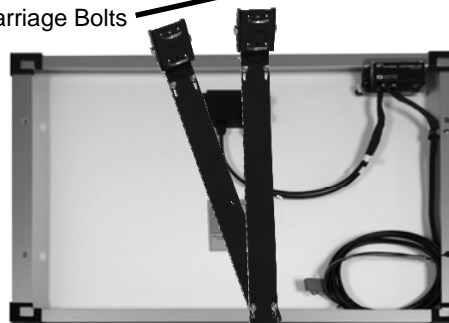


Figure 3B

Placement

Your Mega Blaster Pro will protect an area up to approximately 600 feet in all directions.

Factors to consider when selecting the best location include:

- Birds typically feed from the perimeter of the area and work their way in. Place Mega Blaster Pro units so the sound protection covers all the way to the edges of the area. For larger areas Mega Blaster Pro units should be positioned 400-500 feet inside the area and spaced every 1,200 feet.
- Mount the 20-Speaker Tower at least 5 feet above terrain, areas, trees and other obstacles.
- Placing the Mega Blaster Pro on top of a hill or small rise will give you much better coverage than at the bottom of a valley. The greater the height the further the sounds will travel.
- Wind can blow the sound waves. If the area you need to protect has consistent wind coming from the same direction, position your Mega Blaster Pro more “upwind.”
- Trees surrounding areas provide birds with a safe perch that allows them to fly in, grab food and fly out. It is much more difficult to eliminate bird damage if the birds are able to use the surrounding trees as a staging area for attacks on your areas. Your Mega Blaster Pro unit should be positioned close to any trees bordering your areas. If birds are roosting in the trees at night the TIME OF OPERATION should be set to 24 HOUR.
- Lakes, rivers and wetlands are a favorite resting and hiding place for birds. Your Mega Blaster Pro unit should be placed so the sound thoroughly covers any areas where birds frequent.
- Neighbors, businesses and others may not appreciate hearing the bird sounds. At the limits of the effective range the sounds from your Mega Blaster Pro are at a level people may find annoying. Avoid placing the unit where it becomes a nuisance.

Building a Mounting Pole or Mast

CAUTION: TALL POLES AND MASTS CAN BE HEAVY AND POTENTIALLY DANGEROUS. USE EXTREME CAUTION WHEN CONSTRUCTING OR WORKING AROUND TALL POLES AND MASTS. BIRD-X, INC., ASSUMES NO RESPONSIBILITY FOR DAMAGES OR INJURIES.

Things to consider:

- The 20-Speaker Tower is designed to mount onto a 1 in. (outside diameter) pipe at least 14 in. long. 1 in. conduit works well as it is light, rigid, inexpensive and available in 10 ft. lengths making it ideal for low areas, vineyards and bushes.
- You will want to take down your Mega Blaster Pro unit after harvest and store it in a dry location until the next season.

A suggestion for masts up to 20 feet tall:

1. 3/4 inch Galvanized steel water pipe has a 1 inch outside diameter and is the correct size to fit inside the 20-Speaker Tower. It is often available in 20 ft. lengths from hardware and plumbing supply stores. If these are not available, 10 ft. lengths are common and can be fastened together with a threaded coupler. Assemble the poles on the ground.
2. Slide the 20-Speaker Tower over the pipe and tighten the set screw in the collar at the base.
3. Stand the pole assembly up just inside the drip line of a tree and securely tie the pole to a few heavy branches.
4. Drive a T-Post into the ground at the base of the pole and secure with wire.

For masts taller than 20 feet:

1. Use 20 ft. lengths of galvanized steel water pipe or similar, securely fastened together with threaded reducing couplers.
2. Starting with 3 in. pipe, step the size down with each length of pipe.
3. The last 10 ft. can be 1 in. (O.D.) conduit hose clamped to the final section of galvanized pipe.

A semi-permanent mast support can be made by digging a hole 4 ft. deep and 4 ft. round. In the middle of the hole sink a length of galvanized water pipe large enough that your mast will easily fit inside. Make sure at least 2 ft. of pipe is above ground level. Fill the area around the pipe with packed sand, leaving the last foot filled with concrete to form a cap over the hole. Your mast can be dropped into the galvanized water pipe "receiver" for support. At the end of harvest the mast can be lifted out and positioned on the ground for easy disassembly and storage.

Installation

Note: Foliage, trees, and other obstructions severely reduce the effective range of Mega Blaster Pro units. It is critical that the 20-Speaker Tower is mounted at least 5 feet above all obstructions to achieve the maximum protection.

Mounting Pole or Mast

1. The Mounting Pole or Mast will need to be supported by a T-Post, fence post, tree or other means. The Pole Support should be in place before proceeding.

20-Speaker Tower

2. Lay the 20-Speaker Tower on its side on the ground and cut the zip-tie securing the speaker cables.
3. Slide the 1 in. (outside diameter) Mounting Pole through the Collar at the bottom of the 20-Speaker Tower until it slides over the positioning bolt inside the top of the Tower (Figure 4).
4. Tighten the Set Screw in Collar securely.

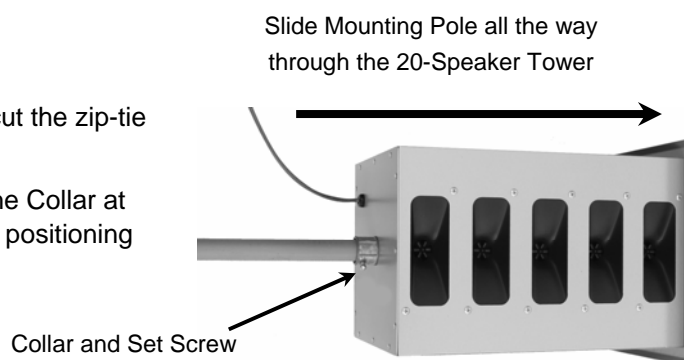


Figure 4

Solar Panel

5. Rest the lower end of the Mounting Pole on the Solar Panel Mounting Bracket approximately three feet from the bottom of the pole with the top of the solar panel facing the 20-Speaker Tower (Figure 5).
6. Lean up the Mounting Pole with the 20-Speaker Tower on top, against the Pole Support and fasten the Mounting Pole to the Pole Support securely with wire or other semi-permanent means.
7. Rotate the solar panel so it receives sunlight.

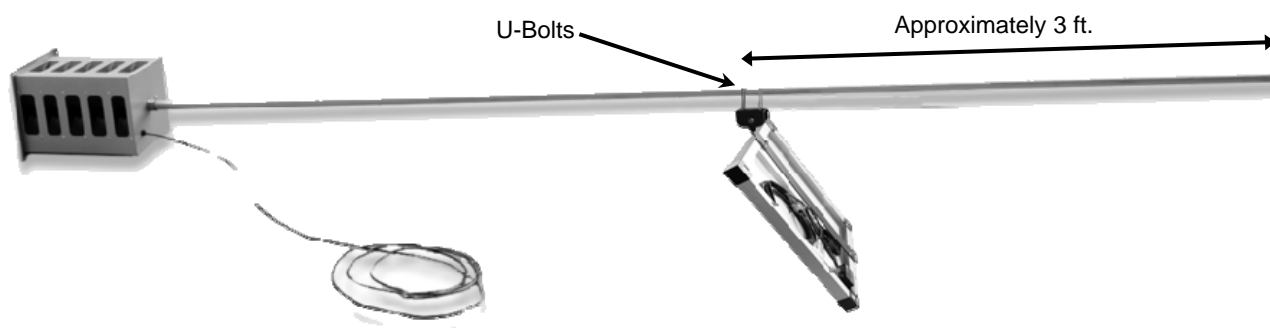


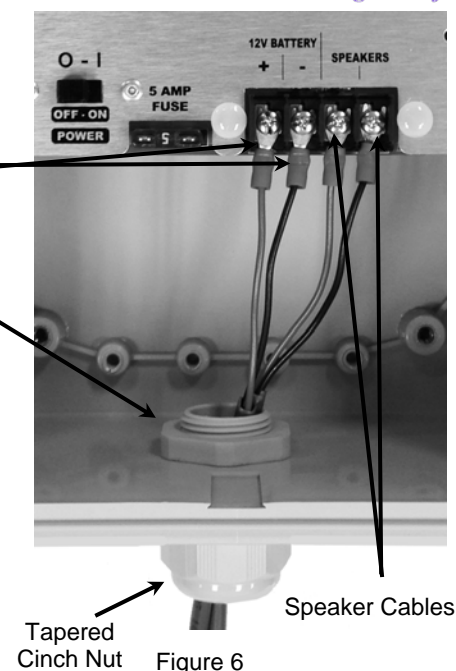
Figure 5

Control Box

8. Attach the Control Box to the Mounting Pole with the U-Bolts.
9. Feed the Speaker Cables through the Cable Strain Relief at the bottom
10. Attach the Speaker Cables from the 20-Speaker Tower to the screws marked "SPEAKER" on the faceplate of the control panel.
11. Locate the Control Box Connector Cable (the grey 2 lead cables) and feed one end through the Cable Strain Relief.
12. Connect the RED wire to the screw marked "+" and the BLACK wire to the screw marked "-" under "12V BATTERY" on the faceplate of the control panel.
13. **MAKE SURE THE POWER SWITCH IS TURNED OFF BEFORE ATTACHING BATTERY.**
14. Connect the other end of the RED wire to the "+" terminal on the 12-volt Deep Cycle battery (not included). Connect the BLACK wire to the "-" terminal on the battery.
15. Hand tighten the Tapered Cinch Nut on the bottom of the Cable Strain Relief to help keep insects and moisture out.

Control Box Connector to Voltage Regulator

Cable Strain Relief



Tapered Cinch Nut

Speaker Cables

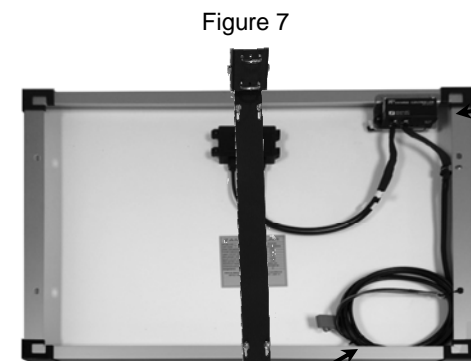
Figure 6

Solar Panel Connections

16. Cut the black zip-ties securing the RED and BLACK wires on the underside of the solar panel. (Figure 7)
17. Connect the RED wire to the "+" terminal on the 12-volt battery and connect the BLACK wire to the "-" terminal on the battery.

NOTE: If you are using a "Sealed Gel" 12-volt battery (instead of a Lead Acid battery) you will need to cut the indicated small BLUE wire on the attached voltage regulator. This prevents Sealed Gel batteries from being overcharged. Failure to cut this wire can result in permanent battery damage. (Figure 8)

Figure 7



RED and BLACK wires connect to BATTERY

Solar Controller



Cut Blue wire for "Sealed Gel" batteries

Figure 8

CAUTION: The Mega Blaster Pro is capable of producing sounds up to 125 decibels. Hearing protection must be worn anytime the unit is on!



Settings

Repelling birds requires regular monitoring and active management. Birds are intelligent and highly adaptable so it is important to create and maintain an environment the birds perceive as hostile and dangerous. This is achieved by playing the sounds frequently and at a high volume, otherwise the birds will not be fully repelled and will soon learn to adapt.

Below are the initial settings that should be used when your Mega Blaster Pro is first installed. Please see the “Bird Control Management Guidelines” section for more information.

Recordings

There are eight separate bird sounds contained on the Replaceable Sound Card. The label on the sound card lists each sound with a number corresponding to the eight “RECORDINGS” dip switches to the left of the Sound Card. Initially all RECORDING switches should be turned ON. If the target birds begin returning, periodically change the switch settings for the eight sounds (turning them ON or OFF). **NOTE: NEVER turn OFF the distress calls of the target birds you are trying to repel and always keep at least one predator bird sound turned ON.**

Mode Settings

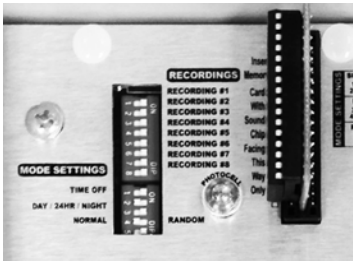
TIME OFF INTERVAL controls the time off periods between each playing of the bird recordings.

Setting	Time Off Duration	Switch #1	Switch #2
SHORT	17-50 Seconds	ON	OFF
MEDIUM	1:00-4:15 Minutes	OFF	ON
LONG	5:00-10:00 Minutes	ON	ON
XLONG	10:00-30:00 Minutes	OFF	OFF

When the Mega Blaster Pro unit is first installed the **TIME OFF INTERVAL** should be set to **SHORT** to create the greatest sense of danger and move the birds out of the area the fastest. Once the birds have left the area completely for a week or more you may try increasing the **TIME OFF INTERVAL** gradually, but you must monitor the birds carefully. Switch back to **SHORT** at the first sign birds are returning.

TIME OF OPERATION controls when the bird recordings play.

Setting	Switch #3	Switch #4
DAY ONLY	ON	OFF
24-HOUR	OFF	ON
NIGHT ONLY	ON	ON



Recommended Settings

In most cases birds are only active during the day so the **DAY ONLY** is recommended. If birds are roosting in bordering trees at night you will need to set the **TIME OF OPERATION** for **24-HOUR**.

RANDOM OPERATION should always be turned **ON**. **VOLUME** should be set as high as possible.

Troubleshooting

Problem	Possible Cause	Solution
No Sound	Volume turned down	Turn volume up
	Dead battery	Charge or replace battery
	Loose battery connection	Verify all battery connections are tight
	All RECORDINGS are turned OFF	Verify all RECORDINGS are switched to ON
	Sound Card not fully seated	Remove sound card and reinstall, making sure it is fully inserted into the socket
	Sound Card is installed backward	Unplug the sound card and reinstall with the label facing to the left
	TIME OF OPERATION set to DAY ONLY without enough light	Change TIME OF OPERATION to 24-HOUR
	Unit was not shut down before the battery was disconnected causing the unit to go into "SAFE MODE"	<ol style="list-style-type: none"> 1. Turn the POWER switch OFF 2. Disconnect the battery 3. Remove the sound card 4. Wait 30 seconds 5. Reinstall sound card 6. Reconnect the battery 7. Turn the POWER switch ON
Was working but stopped	The battery is dead	Connect the battery to a battery charger and see if it will hold a charge. Replace if necessary
	Solar Panel is not getting enough sunlight	Reposition the Solar Panel

Limited Warranty

THIS MEGA BLASTER PRO UNIT IS WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR SIX MONTHS FROM DATE OF PURCHASE (EXTENDED WARRANTY AVAILABLE). BIRD-X WILL REPLACE OR REPAIR, PROVIDED DEFECT OCCURS UNDER NORMAL USE. *RETURNS ACCEPTED ONLY WITH AUTHORIZATION FROM OUR CHICAGO OFFICE.*



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EPA Establishment Number 075130-OR-001

Mega Blaster Pro P/N 655-0065-00 (Rev. 9/2013)



Oxy USA Inc.
Mesa Verde East Recycling Facility (1RF-014) and Containments

Variance Request and Justification

This variance request regards the 60,000 bbl synthetically-lined above-ground storage tank (AST) as described in the modification to registration submitted January 25, 2019.

Oxy USA Inc. proposes to use an audible bird deterrent system (such as the Bird-X Megablaster or equivalent) in place of conventional wildlife netting to fulfill the requirements for migratory bird protection as set forth in NMAC 19.15.34.12 (E). The audible bird deterrent works by producing audio alarms that mimic distressed or alarmed birds, and their natural predators, which causes them to avoid the area.

An audible bird deterrent system is proposed in lieu of bird netting due to its low maintenance and reliable operation, as well as its increased effectiveness in migratory bird protection, compared to bird netting. When necessary, the bird deterrent equipment can be serviced without personnel being in, or on the recycling containment. Due to weather conditions and normal operation of the facility, bird netting may become damaged or loose, requiring repair, and decreasing its effectiveness. To repair, personnel must be in or on the AST, which presents inherent safety risks, as well as potential damage to the AST liners, and upset to facility operation.

Similar audible bird deterrent systems have been approved and implemented at other recycling facility containments, including the in-ground containments at the Mesa Verde Recycling Facility. These deterrents have proven to be a reliable and effective alternative to bird netting, and offer equal or better protection of migratory birds. The bird deterrent will be installed and operated in accordance with manufacturers recommendations. See the attached manufacturers manual for additional information.

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Monday, March 4, 2024 2:41 PM
To: Steinmann, Justin (Arcadis US Inc); Prentice, Adrienne (L&C Safety Inc)
Subject: 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]
Attachments: C-147 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072] 03.04.2024.pdf

1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]

Good afternoon Mr. Steinmann,

NMOCD has reviewed the recycling containment permit modification and related documents, submitted by [16696] OXY USA INC on 02/20/2024, Application ID 315912, for 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]. [16696] OXY USA INC requested a variance from 19.15.34.13.E NMAC for the installation of an audible "Bird-X Mega Blaster Pro" bird deterrence system at 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]. The variance request is approved with the following conditions of approval:

- [16696] OXY USA INC will operate 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072] as originally permitted.
- [16696] OXY USA INC will comply with all conditions previously approved for the 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072] permit.
- No changes to the operations procedures, maintenance, monitoring procedures, or closure procedures will be made aside from the requested modification for installation of an audible "Bird-X Mega Blaster Pro" bird deterrence system at 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072].

Please let me know if you have any additional questions.

Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 315912

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 315912
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the recycling containment permit modification and related documents, submitted by [16696] OXY USA INC on 02/20/2024, Application ID 315912, for 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]. [16696] OXY USA INC requested a variance from 19.15.34.13.E NMAC for the installation of an audible "Bird-X Mega Blaster Pro" bird deterrence system at 1RF-14 - Mesa Verde East Recycling Containment #2 FACILITY ID [fOY1716651072]. The variance request is approved	3/4/2024