Appendix A. Additional and Supporting Figures for Section 3.1.3(HYSPLIT Trajectories)

Site-specific and matrix backward trajectories were calculated from the Las Vegas Valley on June 22, 2020, and are shown in Figures A-1 and A-2 (see Section 3.1.3 for more details on HYSPLIT and the back trajectories calculated). The hour of 20:00 UTC (i.e., 12:00 p.m. local standard time) was chosen as the model starting time because it is the average time of peak ozone of the Paul Meyer, Walter Johnson, and Joe Neal sites on June 22. These trajectories showed air circling in the Las Vegas Valley for most of the morning, but were inconclusive to either the Arizona or Ivanpah fires. These trajectories do not adversely affect our conceptual model because the Arizona fires brought ozone precursors into the air the night before June 22. The air circling through the Las Vegas Valley in the presence of additional anthropogenic emissions and sunlight (the next day) would cause increased ozone production.



Figure A-1. 24-hour HYSPLIT back trajectories with smoke from the Las Vegas Valley, ending on June 22, 2020. NAM 12 km back trajectories are shown for 50 m, 500 m, and 1,000 m above ground level. Smoke plume is HMS smoke from June 22.



Figure A-2. HYSPLIT back trajectory matrix. A 24-hour, NAM 12 km back trajectory matrix was initiated on June 22 at 20:00 UTC (12:00 p.m. Local Time) from Las Vegas Valley at 100 m above ground level. The approximate area of the Ivanpah Fire is indicated by the red star.

Appendix B. Supporting Figures and Documents for Section 3.1.4 (Media Coverage and Ground Images)

4/23/2021

The Bush Fire is now the 5th largest in Arizona's history - CNN

The Bush Fire is now the 5th largest in Arizona's history as firefighters battle multiple blazes By Joe Sutton and Hollie Silverman, CNN

() Updated 3:58 AM ET, Tue June 23, 2020



The Bush fire has burned more than 186,000 acres in Arizona in the last ten days.

(CNN) — Firefighters are battling multiple blazes throughout Arizona this week including the Bush Fire, which is now the fifth largest in the state's history.

Fueled by hot, dry weather and tall grass, the human-caused Bush Fire has torn through 186,000 acres northeast of Phoenix, according to the Incident Report.

Since the fire started ten days ago, 587 total resources have been deployed including 30 engines, three bulldozers, 18 water tenders and eight helicopters, the incident report said.

https://www.cnn.com/2020/06/23/us/arizona-bush-fire-tuesday/index.html

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10:37 AM · Jun 21, 20 138 Q 5 Residents and visitors n in notice to be prepare loads have been close county Sheriff's Office.	20 (20 (20) Share this Tweet ear Apache Lake are in "Go" evacuation notice while nearby d for evacuations. d and restriction have been put in place around the Tonto Na	communities have been put tional Forest by the Gila
10:37 AM · Jun 21, 20 138 Q 5 Residents and visitors n in notice to be prepare Roads have been close county Sheriff's Office. irrefighters achieved 61 vattle.	20 Share this Tweet Pear Apache Lake are in "Go" evacuation notice while nearby d for evacuations. d and restriction have been put in place around the Tonto Na % containment as of late Monday night but there are still tho	communities have been put tional Forest by the Gila usands of acres of flames to

23/2021	The Bush Fire is now the 5th largest in Arizona's history - CNN	
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Figure B-2. News release reported by San Bernadino County on June 23, 2020, reporting the Ivanpah Fire.

Appendix C. Extended Emissions Analyses

To further investigate the contribution of emissions from the fires identified in this demonstration to regional smoke conditions on the day of the event, an extended analysis was performed for fires not identified in the initial Q/d in Section 3.2.1; these fires, the Bighorn, Bush, and Mangum fires, are included in the analysis. We refer to the resulting value calculated from additional fires as "Extended Q/d" to distinguish these results with the Q/d calculated in accordance with EPA guidance.

The total emissions from the fires were substantial on June 22 (Table C-1), June 21 (Table C-2), and June 20 (Table C-3). These extended analyses provide evidence that additional fires emitted ozone precursors in the days leading up to June 22, 2020, and that emissions from these fires and the Ivanpah Fire contributed to the wildfire smoke conditions in Clark County, NV, on June 22, 2020.

Table C-1. Daily growth, emissions, and Extended Q/d for the Ivanpah, Bighorn, Bush, and Mangum fires with potential smoke contribution on June 22, 2020. Growth was obtained from agency estimates available from the Incident Information System (InciWeb) or media reports. Column "E (Tons)" represents the sum of NO_x and Reactive VOC emissions. The aggregate Extended Q/d for all fires is 2.0 tons/km.

Fire Name	Area (Acres)	Daily Growth (Acres)	NO _x (Tons)	VOCs (Tons)	Reactive VOCs (Tons)	E (Tons)	Distance (Km)	Extended Q/d (Tons/km)	Fuel Loading	Fire Size Data Source
Ivanpah Fire	1,000	1,000	3.7	19.44	12	15	110	0.1	Creosote bush shrubland	https://www.fireweatheravalanche.org/wil dfire/incident/119448/california/ivanpah- fire
Bighorn Fire	58,553	0	0	0	0	0	570	0.0	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6741/
Bush Fire	186,848	762	1.59	8.35	5	7	440	0.0	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6773/
Mangum Fire	71,043	1,766	21.89	788.89	473	495	255	1.9	Ponderosa pine-two needle pinyon-Utah juniper forest	https://inciweb.nwcg.gov/incident/6748/

Table C-2. Daily growth, emissions, and Extended Q/d for the Bighorn, Bush, and Mangum fires with potential smoke contribution on June 21, 2020. Growth was obtained from agency estimates available from the Incident Information System (InciWeb). Column "E (Tons)" represents the sum of NO_x and Reactive VOC emissions. The aggregate Extended Q/d for all fires is 3.3 tons/km.

Fire Name	Area (Acres)	Daily Growth (Acres)	NO _x (Tons)	VOCs (Tons)	Reactive VOCs (Tons)	E (Tons)	Distance (Km)	Extended Q/d (Tons/km)	Fuel Loading	Fire Size Data Source
Bighorn Fire	58,553	6,925	14.43	75.85	46	60	570	0.1	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6741/
Bush Fire	186,086	1,555	3.24	17.03	10	13	440	0.0	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6773/
Mangum Fire	69,277	2,983	36.98	1332.53	800	836	255	3.3	Ponderosa pine-two needle pinyon-Utah juniper forest	https://inciweb.nwcg.gov/incident/6748/

Table C-3. Daily growth, emissions, and Extended Q/d for the Bighorn, Bush, Mangum, and Ivanpah fires with potential smoke contribution on June 20, 2020. Growth was obtained from agency estimates available from the Incident Information System (InciWeb). Column "E (Tons)" represents the sum of NO_x and Reactive VOC emissions. The aggregate Extended Q/d for all fires is 2.1 tons/km.

Fire Name	Area (Acres)	Daily Growth (Acres)	NO _x (Tons)	VOCs (Tons)	Reactive VOCs (Tons)	E (Tons)	Distance (Km)	Extended Q/d (Tons/km)	Fuel Loading	Fire Size Data Source
Bighorn Fire	51,628	8,830	18.4	96.71	58	76	570	0.1	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6741/
Bush Fire	184,531	10,134	21.12	110.99	67	88	440	0.3	Paloverde shrubland	https://inciweb.nwcg.gov/incident/6773/
Mangum Fire	66,294	1,785	22.13	797.37	478	501	255	2.0	Ponderosa pine-two needle pinyon-Utah iuniper forest	https://inciweb.nwcg.gov/incident/6748/

Appendix D. Figures Supporting Section 3.2.3 (Satellite Retrievals of Pollutant Concentrations)

OMI retrievals of tropospheric NO₂ (Figure D-1) were examined. However, over areas of dense, visible smoke and near actively burning fires, where significant smoke is present in the troposphere, the measurements show only a slight increase in measured NO₂. Therefore, it was determined that NO₂ does not provide strong evidence for or against smoke impacts in Clark County.



Figure D-1. OMI Aura NO₂ retrieval for the EE on June 22, 2020.

Appendix E. Figures and Tables Supporting Section 3.3.2 (Matching Day Analysis)

A substantial number of wildfires occurred in the southwestern United States in 2017. There is evidence that wildfires could have impacted ozone concentrations in Clark County on June 16, 2017, though this has not been officially classified as a day that was influenced by wildfire emissions. A substantial number of fires were burning in the surrounding region. Figure E-1 and Figure E-2 show air in the days preceding June 16, 2017, passing through the San Joaquin Valley, a region with several active wildfires on June 15 and June 16, on its path towards Clark County. This further emphasizes that an ozone exceedance on a day with meteorological conditions similar to June 22, 2020, likely occurred due to an outside source of ozone production.



Figure E-1. 72-hour HYSPLIT back trajectories from Las Vegas Valley, ending on June 16, 2017. Trajectories include 50 m (red), 500 m (blue), and 1000 m (green).



Figure E-2. NOAA HMS fire product map showing fires on June 14, 2017 (blue), June 15, 2017, (green) and June 16, 2017 (red). Clark County is outlined in black. https://www.ospo.noaa.gov/Products/land/hms.html

Identification of matching (meteorologically similar) days includes a comparison of meteorology maps between June 22 and each date subset from candidate matching days. The surface maps for June 22, 2020, and each date listed in Table 3-14 all show a surface low pressure system directly over Clark County, and most dates have an area of high pressure directly to the east. Surface maps for June 22, 2020, and each date in Table 3-14 are shown in Figure E-3 through Figure E-13. Though there is more variability in the upper-level maps, there is a consistent area of high pressure south of Clark County and a minimal pressure gradient for all days. 500-mb maps for June 22, 2020, and each date in Figure E-14 through Figure E-24.



Figure E-3. Surface meteorology map on June 22, 2020 (the event date).



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-4. Surface meteorology map on June 28, 2014.



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-5. Surface meteorology map on June 15, 2017.



Figure E-6. Surface meteorology map on June 29, 2017.



Surface Weather Map at 7:00 A.M. E.S.T.





Figure E-8. Surface meteorology map on June 24, 2018.



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-9. Surface meteorology map on August 12, 2019.



Figure E-10. Surface meteorology map on August 14, 2019



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-11. Surface meteorology map on August 17, 2019.



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-12. Surface meteorology map on May 27, 2020.



Surface Weather Map at 7:00 A.M. E.S.T.

Figure E-13. Surface meteorology map on August 9, 2020.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-14. 500 mb meteorology map on June 22, 2020 (the event date).



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-15. 500-mb meteorology map on June 28, 2014.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-16. 500-mb meteorology map on June 15, 2017.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-17. 500-mb meteorology map on June 29, 2017.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-18. 500-mb meteorology map on July 1, 2017.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-19. 500-mb meteorology map on June 24, 2018.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-20. 500-mb meteorology map on August 12, 2019.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-21. 500-mb meteorology map on August 14, 2019.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-22. 500-mb meteorology map on August 17, 2019.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-23. 500-mb meteorology map on May 27, 2020.



500-Millibar Height Contour at 7:00 A.M. E.S.T.

Figure E-24. 500-mb meteorology map on August 9, 2020.

Appendix F. GAM Residual Histograms and Scatter Plots from Concurred Exceptional Event Demonstrations

The following are GAM residual histograms and scatter plots from the concurred Arizona Department of Environmental Quality demonstration (Arizona Department of Environmental Quality 2016) and the submitted Texas Commission on Environmental Quality demonstration (Texas Commission on Environmental Quality 2021) for comparison with our GAM residual analysis. The figures in this Appendix show the good residual results from concurred and currently submitted exceptional events demonstrations to which we compared our results. Based on this comparison, we suggest that our GAM results show a well-fit, unbiased model. A well-fit GAM model should show a normal distribution of residuals at all sites modeled (ADEQ example in Figure F-1) and show no pattern or bias between GAM residuals and predicted values (TCEQ example in Figure F-2). These figures compare well with our GAM results in Section 3.3.3 of the main report.



Figure F-1. Histograms of residuals results at each monitoring site from the Arizona DEQ GAM Analysis (Arizona Department of Environmental Quality 2016).





References

Arizona Department of Environmental Quality (2016) State of Arizona exceptional event documentation for wildfire-caused ozone exceedances on June 20, 2015 in the Maricopa nonattainment area. Final report, September. Available at https://static.azdeq.gov/pn/1609_ee_report.pdf.

Texas Commission on Environmental Quality (2021) Dallas-Fort Worth area exceptional event demonstration for ozone on August 16, 17, and 21, 2020. April. Available at https://www.tceq.texas.gov/assets/public/airquality/airmod/docs/ozoneExceptionalEvent/2020-DFW-EE-Ozone.pdf.

Appendix G. Analysis of COVID Restrictions on Ozone

Mobile emission sources decreased throughout the U.S. during the mobility restrictions for the COVID-19 pandemic beginning in mid-March 2020. Because decreases in NOx emissions from these mobile sources could result in higher ozone concentrations, we evaluate the potential contribution and sensitivity of the COVID shutdown effects on ozone concentrations and MDA8 ozone on EE days. Ozone production has non-linear dependence on precursor emissions of NOx and VOCs and meteorological conditions. Changes in precursors also shift photochemical regimes. Thus, the effects of COVID-induced NOx emission changes on ozone are complex and uncertain (Kroll et al., 2020). Recent studies have found variable ozone responses during lockdowns across countries ranging from -2 to +10% (Venter et al., 2020). Park et al., 2020, found spatially disparate effects of higher ozone concentrations downwind of Los Angeles and lower concentrations in the western LA basin. To evaluate the potential influence of COVID shutdown precursor emission decreases on increases in MDA8 ozone, we compared May 2020 ozone to the historical climatology and compared the GAM residuals during May 2020 with those for the same historical record.

Based on 2017 emission inventories in Las Vegas, on-road mobile sources comprise 40% of NOx emissions, and total mobile (vehicle + aviation) emissions comprise 88% of total NOx emissions for a typical ozone season weekday (SIP Plan Revision, Clark County 2015). In contrast, only 11% of VOC emissions originate from on-road mobile sources. The effects of decreased mobility due to COVID restrictions has a significant effect on total NOx emissions, but minimal effect on VOC emissions. To determine the time period for these effects, we compared 2020 daily traffic count data from the Nevada Department of Transportation with that from 2019 at 10 monitoring sites (two examples in Figure G-1). On-road traffic activity was significantly reduced from mid-March through early June 2020 in Clark County compared with 2019. Although aviation activity remained lower than pre-pandemic levels for a longer duration of 2020, commercial aviation represents only 12% of NOx emissions in Clark County. Thus, the reduced aviation activity had a minimal influence on precursors available for ozone formation from mid-June 2020 onwards. Here we focus on May 2020, the first month of 2020 with EE days.





Figure G-1. Time series of 2020 and 2019 traffic counts at two stations: US95 south of Las Vegas (top) and the Nevada-California border west of Las Vegas (bottom). Data were provided by the Nevada Department of Transportation.

Two sub-analyses for the ozone comparison to historical climatology were performed. First, we compared the distribution of daily MDA8 ozone during May 2020 with those during each May in the previous 5 years. Across all EE sites, we found median 2020 MDA8 ozone was not statistically different than any of the previous 5 years. This is illustrated by the overlap in the 95th confidence intervals of the monthly medians from previous years and 2020 (Figure G-2). Furthermore, monthly median MDA8 ozone during May 2020 was not particularly high (<<65 ppb) at all sites despite the EE days. This indicates that the EE day exceedances were extreme episodes that did not affect the monthly median. Thus, the observations do not suggest a month-long high ozone effect due to COVID emission precursor changes. Second, we compared the historical distribution of daily MDA8 ozone on the exceedance days for a given site rank above the confidence interval of the historical daily median MDA8 ozone. Based on these sub-analyses, we conclude that although precursor NOx emissions decreased during May 2020 due to COVID restrictions, MDA8 ozone concentrations were not statistically higher than previous years, and the EE days cannot be attributed to a consistent month-long increase in ozone concentrations due to the COVID shutdown.

To evaluate the GAM model residuals during the COVID shutdown period, Figure 3-47 in Section 3.3.3 provides a more in-depth look at the most heavily affected months, April to May, 2020. The 95th confidence interval of the median GAM MDA8 residuals (shown by the notches in the box plots) overlap between 2020 and most other years (except 2015 and 2016). The May 2020 median residual with EE days (1.5 ppb) is lower than the typical GAM model uncertainty given by the range of confidence intervals for median residuals at comparable ozone concentrations (+2.9 to 5.3 ppb, Table 3-16 in Section 3.3.3). The median GAM residuals during May 2020 were within the typical GAM model error during the previous 5 years.

In summary, although mobile source precursor emissions of NOx decreased during April and May 2020 due to COVID shutdown restrictions, we did not observe statistically higher ozone, nor a higher residual in the GAM model, during May 2020. We find consistent evidence across analyses that the EE day ozone concentrations cannot be attributed to an increase in ozone concentrations associated with COVID shutdown periods.





Jean







Figure G-2. Annual May distributions of MDA8 ozone at sites with EEs during May 2020. Notches denote 95th confidence interval of the median, boxes are 25th, 50th, and 75th percentiles, and whiskers are 5th and 95th percentiles.

••• G.6









Figure G-3. Daily time series of 2014-2019 MDA8 ozone distributions and 2020 MDA8 ozone at each site with proposed EE during May 2020. Notches denote 95th confidence interval of the median, boxes are 25th, 50th, and 75th percentiles, and whiskers are 5th and 95th percentiles.

References

Clark County Department of Environment and Sustainability (2020) Revision to the Nevada State implementation plan for the 2015 ozone NAAQS: emissions inventory and emissions statement requirements. September. Available at https://files.clarkcountynv.gov/clarknv/Environmental%20Sustainability/SIP%20Related%20D ocuments/O3/20200901_2015_O3%20EI-

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Appendix H. Documentation of the Public Comment Process

June 22, 2020 Demonstration

Notice of Public Comment



	Final 2018 and 2020	Exceptional Events	;
Date of Event	Type of Event	Site Name	Exceedance Concentration (ppb)
06/19/2018	Wildfire	Green Valley Paul Meyer Walter Johnson	77 72 72
06/20/2018	Wildfire	Joe Neal Paul Meyer Walter Johnson	72 71 74
05/06/2020	Stratospheric Intrusion	Green Valley Joe Neal Paul Meyer Walter Johnson	72 76 77 78
05/09/2020	Stratospheric Intrusion	Paul Meyer Walter Johnson	74 71
05/28/2020	Stratospheric Intrusion	Paul Meyer Walter Johnson	76 71
06/22/2020	Wildfire	Joe Neal Paul Meyer Walter Johnson	78 74 73
06/26/2020	Wildfire	Paul Meyer	73
09/02/2020	Wildfire	Paul Meyer Walter Johnson	73 75

DES Website Notices

AIR QUALITY PLANNING NOTICES

Wed., June 30, 2021 - Public Notice for Final 2018 and 2020 Exceptional Event Demonstrations

DES welcomes comments on the final exceptional event demonstrations identified in the table below. Under the Exceptional Events Rule (EER), codified at 40 CFR 50.1, 50.14, and 51.930, air agencies are allowed to petition the U.S. Environmental Protection Agency (EPA) to exclude air quality monitoring data influenced by exceptional events from applicable regulatory determinations. Between 2018 and 2020, Clark County recorded several exceedances of the 2015 8-hour ozone National Ambient Air Quality Standard due to impacts from wildfire smoke or stratospheric intrusions. The purpose of these demonstrations is to show that the exceedances would not have occurred without wildfire or stratospheric intrusion impacts and request exclusion of event-related data from use in regulatory determinations in accordance with the EER. All comments will be considered and forwarded to EPA.

Public Comment Period:

July 1 through August 2, 2021

Submit comments in writing to:

Araceli Pruett, Senior Planner Clark County Department of Environment and Sustainability 4701 West Russell Road, Suite 200 Las Vegas, NV 89118 Phone: (702) 455-3206 Email: <u>araceli.pruett@clarkcountynv.gov</u>

Review Documents

View Public Notice

Event Dates(s)	Event Type
June 19-20, 2018 Demonstration Appendices	Wildfire
<u>May 6, 2020 Demonstration</u> Appendices	Stratospheric Intrusion
May 9, 2020 Demonstration Appendices	Stratospheric Intrusion
May 28, 2020 Demonstration Appendices	Stratospheric Intrusion
June 22, 2020 Demonstration Appendices	Wildfire
lune 26, 2020 Demonstration Appendices	Wildfire
September 2, 2020 Demonstration Appendices	Wildfire

Declaration of DES Website Posting

STA	TE OF NEVADA)
COU) ss. INTY OF CLARK)
, Ar Depa Dem webs tt: <u>nttps</u> nuni	aceli Pruett, declare that I am over 18 years of age and a Senior Planner with the Clark County artment of Environment and Sustainability (DES). I declare that the <i>Exceptional Event</i> <i>constration for Ozone Exceedances in Clark County, Nevada – June 22, 2020</i> was posted on the DES tite from June 30 through August 2, 2021. Below is a screenshot of the posting on the DES website ://www.clarkcountynv.gov/government/departments/environment_and_sustainability/public_com iccations/public_notices.php
[AIR QUALITY COMPLIANCE/ENFORCEMENT NOTICES
	> ENFORCEMENT NOTICES PRIOR TO JULY 2021
	AIR QUALITY PERMITTING NOTICES
	> Source ID: 257 - Caesars Entertainment Corporation - Date of Notice: July 21, 2021
	> Source ID: 18079, Displays and Exhibits - Notice Date: July 13, 2021
	AIR QUALITY PLANNING NOTICES
	> Wed., June 30, 2021 - Public Notice for Final 2018 and 2020 Exceptional Event Demonstrations
	> Wed., May 25, 2021- Public Notice for Proposed 2015 Ozone NAAQS SIP Revision
dec	Plare under penalty of perjury that the foregoing is true and correct and that this declaration was uted in Las Vegas, NV, on August 2, 2021.

DES Facebook Posting



DES Twitter Posting



E-Notice

From: Sent: Subject:	Araceli Pruett Thursday, July 1, 2021 7:59 AM NOTICE OF PUBLIC COMMENT PERIOD ON FINAL EXCEPTIONAL EVENT DEMONSTRATIONS
NOTICE IS HEREI identified below. Th agencies to petition influenced by excep County recorded seve due to impacts from The Clark County De that exceedances we exclusion of event-re	3Y GIVEN of a public comment period on the final exceptional event demonstrations e Exceptional Events Rule (EER), codified at 40 CFR 50.1, 50.14, and 51.930, allows air the U.S. Environmental Protection Agency (EPA) to exclude air quality monitoring data tional events from applicable regulatory determinations. Between 2018 and 2020, Clark eral exceedances of the 2015 8-hour ozone National Ambient Air Quality Standard (NAAQS) wildfire smoke or stratospheric intrusions. The following table details these exceedances. epartment of Environment and Sustainability (DES) developed these demonstrations to show build not have occurred without wildfire or stratospheric intrusion impacts and requests elated data from use in regulatory determinations in accordance with the EER.
NOTICE IS FURTH PM on August 2, 20 and provide written available for https://www.clarkcou ns/public_notices.ph	ER GIVEN that a 30-day public comment period will begin on July 1, 2021, and end at 4:00 21, in accordance with the requirements of 40 CFR 50.14(c)(3)(v). The public may review comments on these demonstrations during this period. Copies of the demonstrations are or review on the DES website at: untynv.gov/government/departments/environment_and_sustainability/public_communicatiop and may also be obtained by contacting Araceli Pruett at (702) 455-3206.
Any written commen	nts must be received by DES at 4701 W. Russell Road, Suite 200, Las Vegas, Nevada 89118.
by 4:00 PM on Aug emailed to <u>araceli.pr</u> forwarded to EPA.	ust 2, 2021. Comments should be addressed to Araceli Pruett at the same mailing address, <u>uett@clarkcountynv.gov</u> , or faxed to (702) 383-9994. All comments will be considered and
by 4:00 PM on Aug emailed to <u>araceli.pr</u> forwarded to EPA. Published: June 30, 2	ust 2, 2021. Comments should be addressed to Araceli Pruett at the same mailing address, <u>uett@clarkcountynv.gov</u> , or faxed to (702) 383-9994. All comments will be considered and 2021
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Public Comment Report

Public Notice:	DES Website: June 30 through August 2, 2021
Public Comment Period	July 1 through August 2, 2021
Formal Comments Received:	None
DES Responses:	None