# Attachment G: Checklist - Industrial Performance Standards



All projects within the Devens Regional Enterprise Zone (DREZ) must comply with the Devens Enterprise Commission (DEC) Industrial Performance Standards (IPS) under 974 CMR 4.00. This checklist is intended to assist Applicants in determining at the time of submittal, or ideally before submittal, if their project may or may not involve development and/or activities that may impact sound, vibration, air quality, or lighting within the DREZ.

Site layout, building(s) design/orientation, traffic patterns, location of outdoor equipment and numerous other project components can impact sound, vibration, air quality, and lighting within the DREZ. By identifying any potential IPS concerns early on in the review process, Applicants can design their projects to ensure compliance with the IPS at all times and avoid potential future violations of the IPS and costly mitigation after the fact.

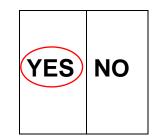
Please note, if a project requires an air permit from the Massachusetts Department of Environmental Protection (DEP), the Applicant will need to initiate permitting through the DEP office as well. Even if a project requires a DEP air permit, the proponent still must demonstrate compliance with the DEC IPS.

Please circle the correct answer to each question in this checklist. Please note that by circling "NO", the Applicant is not relieved of demonstrating compliance with the IPS requirements. If "NO" is circled and a potential concern is identified during the review process, it could temporarily suspend the approval process timeline until the concern is adequately addressed. If "YES" is answered, please explain and provide any supporting studies, modelling files, or information to aid the DEC in their evaluation of the project.

Project Name

Commonwealth Fusion Systems Building 4 - FLiBe Loop

Does the proposed project and associated activities involve any potential increases in sound, vibration, air quality, odor, dust, lighting and/or electromagnetic interference that are covered under the DEC Industrial Performance Standards?



If you answered yes, will the Applicant demonstrate compliance directly or will the project proponent employ an expert to demonstrate compliance? Please provide pertinent contact information of the responsible official:

Noise and Vibration - Cavanaugh Tocci - Contact: Bradley Dunkin 814.232.0064

Air Quality - Commonwealth Fusion Systems - Contact: Chris Scholl

Lighting and Illumination - Jacobs - Contact: John Jackson 617.250.4954

EMI - Commonwealth Fusion Systems - Contact: Darby Dunn or Kyle Metzroth

#### **Noise**

Does the	proposed	nroiect l	have the	ability to	increase	sound?
Ducs mc	or oboseu	project i	mave unc	ability to	mer case	souna.

- 1. Will the increase in sound plus background sound exceed 974 CMR 4.05 (3)a?
- 2. Will the total sound plus background sound exceed 974 CMR 4.05 (3)b?
- 3. Will the increase in sound create pure tones that will exceed 974 CMR 4.05 (3)c and/or 974 CMR 4.05 (3)d7?
- 4. Will the increase in sound create impulsive sounds that will exceed 974 CMR 4.05 (3)d1-6 and/or 974 CMR 4.05 (3)d8?
- 5. Are there procedures and controls proposed to reduce sound during earth removal per 974 CMR 4.07(10)?

#### **Checklist Options to Demonstrate Sound Compliance**

- 6. Have all of your potential sound sources been identified?
- 7. Will spreadsheet calculations of the potential increase in sound be provided?
- 8. Will sound modeling of the proposed project be provided?
- 9. Will the facility submit a protocol describing the potential sound monitoring, metrics, and modeling as required?
- 10. Does the project propose to collect background sound data (typically 7-days worth of valid data is sufficient)?
- 11. If the facility intends to collect background sound data will it include other qualifying weather data such as wind speed, wind direction, sky conditions, etc.?
- 12. Is mitigation to reduce the overall sound profile proposed?
- 13. Is sound mitigation to be assumed when calculations or modeling is performed? (modelling files are required to be submitted to the DEC)
- 14. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in sound?
- 15. Have increases in sound with respect to traffic been considered?

(	YES	NO
	YES	NO
	YES	NO
	See N YES	Note 1 NO
	YES	NO
		lote 2
	YES	NO
	YES	) NO
	YES	NO

YES

### **Vibration**

Does the proposed project have the ability to increase vibration?	YES	NO
16. Will the increase in vibration exceed 974 CMR 4.05 (4)a??	YES	NO
<b>Checklist Options to Demonstrate Vibration Compliance</b>		
17. Have all of the potential vibration sources been identified?	YES	NO
18. Will spreadsheet calculations of the potential increase in vibration be provided?	YES	NO
19. Will the proponent provide vibration modeling of the proposed project?	YES	NO
20. Does the project propose to collect background vibration data?	YES	NO
21. Is mitigation proposed to reduce the overall vibration profile?	YES	NO
22. Is vibration mitigation to be assumed when the calculations or modeling performed?	YES	NO
23. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in vibration as proposed?	YES	NO

Note 1: Third-octave sound data for proposed facility equipment is not available for assessment of a pure-tone condition. However, modeled sound levels at receptors are significantly below the measured background sound level. Therefore we would anticipate that any tonal sound at the source, when combined with the background sound spectrum at receptor locations, would not result in a pure-tone condition at these receptors.

Note 2: This project uses sound monitoring data previously collected during sound analysis of CFS-1 and CFS-2.

## **Air Quality**

Does the proposed project have the ability to create air, visible, and/or odor emissions?	YES NO
24. Will the proposed project meet the air quality standards in 974 CMR 4.02(3)	YES NO
25. Are there procedures and controls proposed to minimize impacts during earth removal per 974 CMR 4.07(7)?	YES NO
26. Will the proposed project require a MassDEP air quality permit per 974 CMR 4.02 (1)	YES NO
If the project will require an air permit, then the proponent should set up a meeting with the regional MassDEP office to determine air permitting requirements, and answer the following:	
27. Will the proposed project submit a Limited Plan Approval application?	YES NO
28. Will the proposed project submit a Non-Major Comprehensive Plan Approval application?	YES NO
29. Will the proposed project submit a Major Comprehensive Plan Approval application?	YES NO
30. Will the proposed project be a Title V source?	YES NO
31. Will the proposed project be a PSD source?	YES NO
Checklist Options to Demonstrate Air Quality Compliance 32. Have you identified all of your potential air, visible and/or odor sources?	YES NO
33. Will there be any visible emissions?	YES NO
34. Will there be any dust emissions?	YES NO
35. Will there be any odor emissions?	YES NO
36. Will there be any potential increases in air, odor or dust emissions within the DREZ that will impact any internal or external receptors?	YES NO
37. Will the project proponent provide spreadsheet calculations of the potential increase in air and/or odor emissions within the DREZ to demonstrate how the increase will not impact any internal or external receptors?	YES NO

#### **Checklist Options to Demonstrate Air Quality Compliance (cont.)**

- 38. Will the project proponent provide air and/or odor modeling of the proposed project within the DEC or into the neighborhood surrounding the DEC??
- 39. Is mitigation proposed to reduce the overall air and/or odor profile?
- 40. Is air pollution and/or odor control to be assumed when the calculations or modeling is performed?
- 41. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in air and/or odor as proposed?

YES	NO
YES	NO
YES	NO
YES	NO

## **Lighting/Illumination**

Does the proposed project have the ability to create additional Illumination?

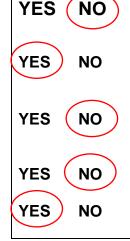
- 42. Will lighting meet the illumination standards set forth in 974 CMR 4.04(3)?
- 43. Have all of the potential light sources been identified?
- 44. Will spreadsheet calculations of the potential increase in light and how it will not affect the Observatory outlined in 974 CMR 4.04(1) or any external or internal receptors be provided?
- 45. Is mitigation proposed to reduce the overall light profile?

YES (	NO
YES	NO
YES (	NO
YES	NO
YES	NO

### **Electromagnetic Interference**

Does the proposed project have the ability to create electromagnetic interference?

- 46. Have you identified all your potential electromagnetic sources?
- 47. Are you proposing to provide spreadsheet calculations of the potential increase in electromagnetic interference and how it will not affect any internal or external receptors as per 974 CMR 4.03(3)?
- 48. Are you proposing any mitigation to reduce your overall electromagnetic profile?
- 49. Will your project comply with all the electromagnetic requirements under 974 CMR 4.03?





## **Attachment H: Noise Study**

## Commonwealth Fusion Systems Building 4 (CFS-4) Hospital Road, Devens, MA

#### MassDEP Form BWP AQ Sound Sound Level Entries

September 22, 2025

#### **Project Overview**

Cavanaugh Tocci has conducted a study of environmental sound produced by mechanical equipment serving the CFS-4 building currently being designed for the Commonwealth Fusion Systems (CFS) Campus in Devens, MA. This study reviews applicable limits on facility sound and develops sound control concepts as may be required for compliance with the MassDEP Noise Policy and the Devens Enterprise Commission (DEC) Industrial Performance Standards (IPS) noise limits.

The CFS-4 building is part of a four-building campus located at 117 Hospital Road in Devens, MA. Construction of CFS-1 is substantially complete and the building is occupied, CFS-2 is under construction with portions in use, and CFS-3 and CFS-4 are in design. Figure 1 shows the location of CFS-4 in relation to the CFS campus and surrounding area.

The analysis discussed in this report and the MassDEP BWP AQ Sound are for CFS-4 only; other campus buildings are included in the analysis only as potential shielding structures, without analyzing their sound contributions.

#### Nighttime Background Sound Monitoring

Cavanaugh Tocci has been requested to prepare a Massachusetts Department of Environmental Protection Form BWP AQ Sound for the CFS-4 building. Hourly sound monitoring at Locations L1-L4 shown in Figure 1 was conducted in 2022, prior to completion of any of the four CFS campus buildings. Among the data collected continuously over the seven-day period are the hourly 90<sup>th</sup> percentile Fast response A-weighted sound pressure levels (LAF<sub>90,1-hr</sub>) defined as the hour background sound level.

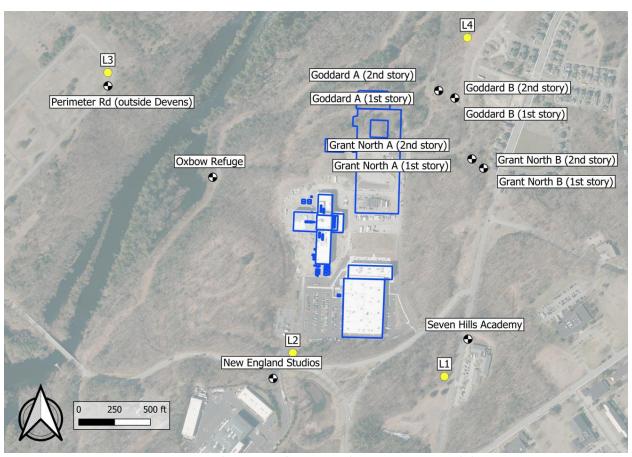


Figure 1. CFS-4 sound monitoring locations and nearest receptor study locations Commonwealth Fusion Systems, Devens, Massachusetts

The hourly data collected over the seven days monitored are included in Appendix A of this report. For each location monitored, the data is arranged as two sub-tables in Appendix Tables A-1 to A-4. The upper sub-table of each of the four sets reports the LAF<sub>90,1-hr</sub> as measured each hour between midnight August 1 to midnight August 7, 2022. The lower subtable reports the LAF<sub>90,1-hr</sub> spectra truncated above the 1000 Hz octave band in accordance with ANSI S12.100<sup>1</sup> to eliminate insect sound that at times raised the background sound levels by 15-25 dBA. By removing insect sound from the measured background sound level spectra, MassDEP noise limits more appropriately represent quieter times of year. Lowest measure LAF<sub>90,1-hr</sub> after truncation are listed in Table 1 below.

<sup>&</sup>lt;sup>1</sup> American National Standard S12.100-2014 Methods to Define and Measure the Residual Sound in Protected Natural and Quiet Residential Areas



Loc.	Hour, Day, Date of Lowest LAF <sub>90,1-hr</sub>	31	63	125	250	500	1000	2000	4000	8000	A-wt Trunc
L1	5 PM, Friday, August 5, 2022	50	49	42	37	36	35				38
L2	7 AM, Sunday, August 7, 2022	46	45	51*	39	35	32				39
L3	8 AM, Saturday, August 6, 2022	43	45	38	31	27	23				29
L4	8 AM, Saturday, August 6, 2022	44	42	38	33	29	25				31

<sup>\*</sup>The 51 dB tone in the 125 Hz band at L2 is produced by NE Studios rooftop mechanical equipment.

Table 1. ANSI S12.100 truncated lowest measured nighttime (10 PM-7 AM) LAF<sub>90,1-hr</sub> sound level spectra Commonwealth Fusion Systems, Devens, MA

The LAF<sub>90,1-hr</sub> spectra of Table 1 have been assigned to the nearest receptors identified in Figure 1. For each of the twelve receptor study locations, Appendix B contains the background sound level spectra, sound levels produced by the two cooler options, and the sum of each cooler option and the nighttime background. The sum of background and source sound are labeled as "night background plus facility." To the right of each table, the increase in nighttime background for each cooler option and whether a tone results is indicated.

Note that the nighttime background measured at L2, close to New England Studios, has a tone produced by rooftop equipment at New England Studios. The tone is not related to Commonwealth Fusion Systems, and is evident in both "night background" and in the "night background plus facility" spectra for both cooling options. As reported in the Appendix B tables, increases in background resulting from CFS-4 operation are well below 10 dB, less than 1 dB at nearest residences, and less than 6 dB at night in the Oxbow Refuge when it is seldom visited. The low increases result from compliance with the more demanding Devens Enterprise Commission Industrial Performance Standards limits. The CFS-4 acoustical design, to meet the DEC limits, will implement Best Available Control Technology (BACT).



#### MassDEP Form BWP AQ Sound

As the MassDEP Form BWP AQ Sound has only four lines for each entry category, the following provides the same required information for 12 receptor locations. The first eight locations are residential; the remaining are commercial and parklands. The following are applicable entry areas of the BWP AQ Sound and are provided in lieu of entries on the form itself.

#### 1. Lowest ambient sound pressure levels during operating hours of the equipment.

#### a. At property line:

Night Backgrounds	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard A (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard B (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard B (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North A (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North A (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North B (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North B (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
New England Studios (L2)	43	43	51	35	29	27	0	0	0	37	Yes
Oxbow Refuge (L3)	42	42	35	28	26	22	0	0	0	27	No
Perimeter Rd (outside Devens) (L	42	42	35	28	26	22	0	0	0	27	No
Seven Hills Academy (L1)	46	43	39	33	29	26	0	0	0	31	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.

#### b. At the nearest inhabited building and if applicable at buildings at higher elevation:

Night Backgrounds	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard A (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard B (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Goddard B (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North A (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North A (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North B (1st story) (L4)	40	37	34	30	26	24	0	0	0	28	No
Grant North B (2nd story) (L4)	40	37	34	30	26	24	0	0	0	28	No
New England Studios (L2)	43	43	51	35	29	27	0	0	0	37	Yes
Oxbow Refuge (L3)	42	42	35	28	26	22	0	0	0	27	No
Perimeter Rd (outside Devens) (L	42	42	35	28	26	22	0	0	0	27	No
Seven Hills Academy (L1)	46	43	39	33	29	26	0	0	0	31	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.



- 2. Neighborhood sound pressure levels with source operating without sound abatement equipment.
- a. At property line:

New facility. Unattenuated levels not determined.

b. At the nearest inhabited building and if applicable at buildings at higher elevation:

New facility. Unattenuated levels not determined.

- 3. Expected neighborhood sound pressure levels after installation of sound abatement equipment.
- **a.** At property line (for both cooler options):

Night Backgrounds plus Facility  Quiet Fan Option	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (1st story)	40	37	34	30	26	24	5	5	5	28	No
Goddard B (1st story)	40	37	34	30	26	24	6	5	5	28	No
Grant North A (1st story)	40	38	35	31	27	24	11	6	5	29	No
Grant North B (1st story)	40	38	35	31	26	24	11	6	5	29	No
New England Studios	43	43	51	35	30	27	12	5	5	37	Yes
Oxbow Refuge	42	42	36	29	27	23	15	10	5	29	No
Perimeter Rd (outside Devens)	42	42	35	28	26	22	7	5	5	28	No
Seven Hills Academy	46	43	40	33	30	26	15	7	5	32	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.

Night Backgrounds plus Facility Gound Mounted Option	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (1st story)	40	38	34	30	26	24	3	3	3	28	No
Goddard B (1st story)	40	38	35	31	26	24	4	3	3	28	No
Grant North A (1st story)	40	39	35	31	26	24	6	3	3	29	No
Grant North B (1st story)	40	39	35	31	26	24	6	3	3	29	No
New England Studios	43	43	51	35	30	27	9	3	3	37	Yes
Oxbow Refuge	42	43	38	35	31	27	19	10	3	33	No
Perimeter Rd (outside Devens)	42	42	36	31	27	23	11	3	3	29	No
Seven Hills Academy	46	43	40	33	30	27	14	3	3	32	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.



## b. At nearest inhabited building and if applicable at buildings at higher elevations (for both cooler options):

Night Backgrounds plus Facility  Quiet Fan Option	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (2nd story)	40	37	34	30	26	24	5	5	5	28	No
Goddard B (2nd story)	40	37	34	30	26	24	7	5	5	28	No
Grant North A (2nd story)	40	38	35	31	27	24	12	6	5	29	No
Grant North B (2nd story)	40	38	35	31	27	24	12	6	5	29	No
New England Studios	43	43	51	35	30	27	12	5	5	37	Yes
Oxbow Refuge	42	42	36	29	27	23	15	10	5	29	No
Perimeter Rd (outside Devens)	42	42	35	28	26	22	7	5	5	28	No
Seven Hills Academy	46	43	40	33	30	26	15	7	5	32	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.

Night Backgrounds plus Facility Gound Mounted Option	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard A (2nd story)	40	38	35	30	26	24	3	3	3	28	No
Goddard B (2nd story)	40	38	35	31	26	24	4	3	3	28	No
Grant North A (2nd story)	40	39	36	31	26	24	7	3	3	29	No
Grant North B (2nd story)	40	39	35	31	26	24	7	3	3	29	No
New England Studios	43	43	51	35	30	27	9	3	3	37	Yes
Oxbow Refuge	42	43	38	35	31	27	19	10	3	33	No
Perimeter Rd (outside Devens)	42	42	36	31	27	23	11	3	3	29	No
Seven Hills Academy	46	43	40	33	30	27	14	3	3	32	No

Note: The tone in the 125 Hz octave band is produced by rooftop equipment on the New England Studios building.

#### **Conclusions**

Sound produced by both of two options studied for coolers proposed for Commonwealth Fusion Systems Building 4 will produce increases in nighttime background sound levels at the nearest inhabited buildings by not more than 1 dB at all existing residences and by less than 6 dB at other nearby occupancies. Sound attenuation methods and equipment are the best available control technology, which is needed to meet the more stringent standards of the Devens Enterprise Commission Industrial Performance Standards.

\* \* \*

Please let us know if further information is required. Thank you.

25091 CFS-4 Massdep BWP AQ Data 1a.Docx



# Sound Monitoring Data Locations L1-L4, Devens, MA Monday, August 1 to Sunday, August 5, 2022

Time	August 1	August 2	August 3	August 4	August 5	August 6	August 7
12:00 AM	58	58	62	58	58	59	60
1:00 AM	56	56	58	57	58	58	59
2:00 AM	55	57	57	59	58	61	58
3:00 AM	59	56	61	58	58	61	59
4:00 AM	60	61	61	61	63	61	61
5:00 AM	65	65	65	65	66	64	63
6:00 AM	65	66	66	64	66	62	62
7:00 AM	65	65	67	66	65	64	63
8:00 AM	66	66	67	65	66	63	61.80
9:00 AM	64	66	66	64	65	63	63
10:00 AM	65	66	64	64	64	64	63
11:00 AM	65	64	64	65	65	64	63
12:00 PM	64	64	64	66	65	64	64
1:00 PM	66	64	63	63	63	64	61.80
2:00 PM	64	65	66	64	64	63	63
3:00 PM	66	66	65	64	68	64	63
		64		64		64	
4:00 PM	64		65		65		63
5:00 PM	65	64	66	64	65	64	63
6:00 PM	64	65	64	62	64	63	62
7:00 PM	63	62	61	62	62	62	63
8:00 PM	62	61	62	61	61	62	61
9:00 PM	63	62	64	61	61	62	62
10:00 PM	58	61	61	60	61	62	59
	61	60	61	61	61	61	60
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Table A-1. Hourly 90<sup>th</sup> percentile A-weighted sound levels measured at L1 in 2022 Commonwealth Fusion Systems, Devens, MA



Time	August 1	August 2	August 3	August 4	August 5	August 6	August 7
12:00 AM	59	52	61	56	55	58	55
1:00 AM	54	50	53	54	56	54	55
2:00 AM	50	46	53	50	54	54	56
3:00 AM	54	50	57	57	56	57	53
4:00 AM	59	58	58	70	59	57	55
5:00 AM	70	60	62	72	60	59	54
6:00 AM	69	62	63	62	63	60	59
7:00 AM	82	69	65	64	63	61	60
8:00 AM	73	72	65	66	63	61	59
9:00 AM	75	65	66	64	63	59	59
10:00 AM	70	62	65	62	66	59	59
11:00 AM	69	64	65	69	68	60	59
12:00 PM	71	68	74	61	66	60	61
1:00 PM	73	66	63	64	69	58	59
2:00 PM	73	65	66	60	65	59	62
3:00 PM	69	65	77	63	63	59	61
	60	65	65	60	62	60	60
4:00 PM	61	65	61	60	61	59	59
5:00 PM							
6:00 PM	60	61	60	59	59	59	59
7:00 PM	59	59	59	61	59	58	59
8:00 PM	58	59	61	60	59	59	60
9:00 PM	60	58	60	59	59	60	59
10:00 PM	57	58	57	59	58	57	57
11:00 PM	56	57	57	57	59	58	57
		111	115				
AS MEASL	JRED1250	111 Hz and Hig	115 gher <b>1/3</b> oc	tave band	s truncated	1	217
AS MEASU Time	JRED1250 August 1	111 Hz and Hig August 2	115 gher 1/3 oc August 3	ctave band August 4	s truncated August 5	d August 6	217 August
AS MEASU Time 12:00 AM	JRED1250 August 1 38	111 Hz and Hig August 2	115 gher 1/3 oc August 3	ctave band August 4	s truncated August 5	August 6	217 August 2
AS MEASU Time	JRED1250 August 1	111 Hz and Hig August 2	115 gher 1/3 oc August 3	ctave band August 4	s truncated August 5	d August 6	217 August
AS MEASU Time 12:00 AM	JRED1250 August 1 38 37 38	111 O Hz and Hig August 2 38 38 38	115 gher 1/3 oc August 3 37 37 37	August 4 39 38 38	s truncated August 5 39 38 37	38 38 38 38	217 August 38 38 38
AS MEASU Time 12:00 AM 1:00 AM	JRED1250 August 1 38 37	111 O Hz and Hig August 2 38 38	115 gher 1/3 oc August 3 37 37	August 4 39 38	s truncated August 5 39 38	August 6 38 38	217 August 3 38 38
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AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM	JRED1250 August 1 38 37 38 38 38	111 O Hz and High August 2 38 38 38 38 39	115 gher 1/3 oc August 3 37 37 37 40	39 38 38 39 38	s truncated August 5 39 38 37 37	August 6 38 38 38 38 39	217 August 38 38 38 38 38
12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM	JRED1250 August 1 38 37 38 38 38 39	111 O Hz and Hig August 2 38 38 38 38 39 39	115 gher 1/3 oc August 3 37 37 40 44	39 38 38 39 39 39	s truncated August 5 39 38 37 37 37	August 6 38 38 38 38 38 38	217 August 38 38 38 38 38 38
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AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 4:00 PM 5:00 PM 6:00 PM 6:00 PM 8:00 PM 8:00 PM 8:00 PM	JRED1250 August 1  38  37  38  38  39  43  46  51  49  47  46  47  47  45  42  42  41  40  40	111 Description of the state of	115 gher 1/3 oc August 3  37  37  40  44  46  46  47  48  47  46  46  45  45  41  39  39  40	39 38 38 39 39 43 44 45 44 44 44 45 44 41 40 39 41	s truncated August 5  39  38  37  38  38  41  43  43  44  42  42  41  40  40  39	August 6  38  38  38  39  38  39  41  42  42  42  43  42  41  41  43  42  41  40  40  40	217  August  38  38  38  38  38  38  39  40  41  42  42  43  45  44  43  42  41  40  40
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 8:00 PM 8:00 PM 8:00 PM 8:00 PM 8:00 PM	JRED1250 August 1  38  37  38  39  43  46  51  49  49  47  46  47  47  45  42  42  41  40  40  40	111 Description of the state of	115 gher 1/3 oc August 3 37 37 37 40 44 46 46 47 48 47 46 46 45 45 45 41 39 39 40 39	2 tave band 39 38 38 39 39 43 44 45 44 44 45 44 44 45 44 44 45 44 44	s truncated August 5  39  38  37  37  38  38  41  43  43  44  45  49  43  46  44  42  42  41  40  40  39  39	August 6  38  38  38  39  38  39  41  42  42  42  43  42  41  41  43  42  41  40  40  40  39	217  August  38  38  38  38  38  38  39  40  41  42  42  43  45  44  43  42  42  41  40  40  40
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 4:00 PM 5:00 PM 6:00 PM 6:00 PM 8:00 PM 8:00 PM 8:00 PM	JRED1250 August 1  38  37  38  38  39  43  46  51  49  47  46  47  47  45  42  42  41  40  40	111 Description of the state of	115 gher 1/3 oc August 3  37  37  40  44  46  46  47  48  47  46  46  45  45  41  39  39  40	39 38 38 39 39 43 44 45 44 44 44 45 44 41 40 39 41	s truncated August 5  39  38  37  38  38  41  43  43  44  42  42  41  40  40  39	August 6  38  38  38  39  38  39  41  42  42  42  43  42  41  41  43  42  41  40  40  40	217  August  38  38  38  38  38  38  39  40  41  42  42  43  45  44  43  42  41  40  40

Table A-2. Hourly 90<sup>th</sup> percentile A-weighted sound levels measured at 2 in 2022 Commonwealth Fusion Systems, Devens, MA



Time	August 1	August 2	August 3	August 4	August 5	August 6	August
12:00 AM	56	57	59	58	60	55	60
1:00 AM	57	51	54	49	53	52	53
2:00 AM	47	45	47	47	52	50	53
3:00 AM	52	45	57	64	56	62	51
4:00 AM	55	56	59	52	54	46	49
5:00 AM	54	60	60	58	59	63	57
6:00 AM	60	57	58	56	58	53	51
7:00 AM	56	56	60	56	57	54	55
8:00 AM	57	58	61	56	56	54	57
9:00 AM	57	52	58	58	57	58	54
10:00 AM	55	53	53	58	56	55	58
11:00 AM	58	57	52	57	56	55	59
12:00 PM	55	57	53	58	56	55	61
1:00 PM	54	60	52	57	57	56	64
2:00 PM	54	58	55	59	60	59	67
3:00 PM	55	65	57	59	61	56	63
4:00 PM	53	58	58	58	58	57	61
5:00 PM	57	59	58	56	56	50	61
6:00 PM	56	58	58	58	54	55	64
7:00 PM	53	56	56	56	57	59	57
8:00 PM	58	57	56	57	56	55	55
9:00 PM	58	57	57	57	55	59	59
				57	54	54	54
1∩·∩∩ D	52						
	53 50	59 63	57 52				
10:00 PM 11:00 PM	53 50	63	52	55	53	57	56
11:00 PM	50	63 113	52	55		57	
11:00 PM	50 JRED <b>125</b> 0	63 113 Hz and Hi	52 gher <b>1/3</b> oc	55 159	53	57 194	56
11:00 PM AS MEASU Time	50 JRED1250 August 1	63 113 Hz and Hig August 2	52 gher 1/3 oc August 3	55 159 August 4	53 August 5	57 194 August 6	56 August
AS MEASU Time 12:00 AM	50 JRED1250 August 1 31	63 113 Hz and Hi August 2 31	52 gher 1/3 oc August 3	159 August 4	53 August 5	57 194 <b>August 6</b> 31	56 August
11:00 PM AS MEASL Time 12:00 AM 1:00 AM	50 JRED1250 August 1 31 31	63 113 Hz and Hig August 2 31 31	52 gher 1/3 oc August 3 29 30	159 August 4 33 33	53 August 5 33 32	194 August 6 31 32	56 August 33 32
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM	50  JRED1250  August 1  31  31  31	63 113 O Hz and Hig August 2 31 31 31	52 gher 1/3 oc August 3 29 30 31	159 August 4 33 33 33	53  August 5  33  32  32	57 194 August 6 31 32 31	56 August 33 32 31
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM	50    Section 2015   Section 2015	63 113 Hz and Hig August 2 31 31 31 31	52 gher 1/3 oc August 3 29 30 31 31	159 August 4 33 33 33 33 33	53 August 5 33 32 32 30	57 194 August 6 31 32 31 31	33 32 31 31
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM	50  PRED1250  August 1  31  31  31  32  31	63 113 O Hz and Hig August 2 31 31 31 31 31 33	52  gher 1/3 oc  August 3  29  30  31  31  33	159 August 4 33 33 33 33 33 33	53  August 5  33  32  32  30  30	57  194  August 6  31  32  31  31  31	33 32 31 31 30
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM	31 31 31 32 31 37	63 113 D Hz and Hig August 2 31 31 31 31 33 33	52 gher 1/3 oc August 3 29 30 31 31 33 35	159 August 4 33 33 33 33 33 33 35	53  August 5  33  32  32  30  30  34	194 August 6 31 32 31 31 31 31	33 32 31 31 30 31
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM	50  JRED1250  August 1  31  31  31  32  31  37  38	63 113 D Hz and Hig August 2 31 31 31 31 33 36 38	52 gher 1/3 oc August 3 29 30 31 31 33 35 37	159 August 4 33 33 33 33 33 33 33 35 39	53  August 5  33  32  32  30  30  34  36	194 August 6 31 32 31 31 31 31 31 30	56  August  33 32 31 31 30 31 32
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM	31 31 31 32 31 37 38	63 113 D Hz and Hig August 2 31 31 31 31 33 36 38	52 gher 1/3 oc August 3 29 30 31 31 33 35 37	159 August 4 33 33 33 33 33 35 39 40	53  August 5  33  32  30  30  34  36  35	194 August 6 31 32 31 31 31 31 30 31	33 32 31 31 30 31 32 32
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM	50  JRED1250  August 1  31  31  31  32  31  37  38  38  39	63 113 D Hz and Hig August 2 31 31 31 31 33 36 38 38 37	52 gher 1/3 oc August 3 29 30 31 31 33 35 37 35	159 August 4 33 33 33 33 33 35 39 40 38	53  August 5  33  32  30  30  34  36  35  33	57  194  August 6  31  32  31  31  30  31  29  29	33 32 31 31 30 31 32 32 32
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM	50  JRED1250  August 1  31  31  32  31  37  38  38  39  38	63 113 D Hz and Hig August 2 31 31 31 31 33 36 38 38 37	52 gher 1/3 oc August 3 29 30 31 31 33 35 37 35 35 33	159 August 4 33 33 33 33 33 35 39 40 38 37	53  August 5  33  32  30  30  34  36  35  33  32	57  194  August 6  31  32  31  31  30  31  29  29  30	33 32 31 31 30 31 32 32 32 33
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM	50  JRED1250  August 1  31  31  31  32  31  37  38  38  39  38  36	63 113 D Hz and Hig August 2 31 31 31 31 33 36 38 38 37 35 34	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32	159 August 4 33 33 33 33 33 35 39 40 38 37 38	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33	57  194  August 6  31  32  31  31  30  31  29  29  30  32	33 32 31 31 30 31 32 32 32 33 35 36
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM 10:00 AM	50  JRED1250  August 1  31  31  32  31  37  38  38  39  38  36  37	63 113 Hz and High August 2 31 31 31 31 33 36 38 38 37 35 34 35	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32  34	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39	53  August 5  33  32  30  30  34  36  35  33  32  33  33  32	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34	56  August  33 32 31 31 30 31 32 32 33 35 36 37
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM	50  JRED1250  August 1  31  31  32  31  37  38  38  39  38  36  37  35	63 113 0 Hz and Hi August 2 31 31 31 31 33 36 38 38 37 35 34 35 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32  34  35	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33  32	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34	56  August  33 32 31 31 30 31 32 32 32 33 35 36 37 39
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM	50  JRED1250  August 1  31  31  31  32  31  37  38  38  39  38  36  37  35  35	63 113 Hz and High August 2 31 31 31 33 36 38 37 35 34 35 37 38	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32  34  35  34	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38 37	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33  33  33  32  33	194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  34	33 32 31 31 30 31 32 32 33 35 36 37 39 40
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM	50  JRED1250  August 1  31  31  32  31  37  38  38  39  38  36  37  35  35	63 113 PHz and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32  34  35  34  34	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38 37	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33  33  34	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  34  35	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM	50  JRED1250 August 1  31  31  31  32  31  37  38  38  39  38  36  37  35  35  35	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 38 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  33  32  34  35  34  34  36	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33  34  35	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  34  35  36	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40
11:00 PM  AS MEASL Time  12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM 4:00 PM	50  JRED1250 August 1  31  31  31  32  31  37  38  38  39  38  39  38  36  37  35  35  35  35	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 38 37 39 34	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  35  34  36  35	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 35	53  August 5  33  32  30  30  34  36  35  33  32  33  32  33  34  35  35  35	194 August 6 31 32 31 31 31 30 31 29 29 30 32 34 34 34 35 36 37	56  August  33  32  31  31  30  31  32  32  33  35  36  37  39  40  42  40  39
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM 4:00 PM 5:00 PM	50    JRED-1250     August 1	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 38 37 38 37 38 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  34  36  35  33  31  33  35  37  35  37  35  37  35  35  37  38  39  30  30  30  30  30  30  30  30  30	159 August 4  33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 35 34	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  33  34  35  35  35  35  35	194 August 6 31 32 31 31 31 30 31 29 29 30 32 34 34 34 35 36 37 34	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 12:00 PM 3:00 PM 4:00 PM 6:00 PM	50  JRED-1250 August 1  31  31  31  32  31  37  38  38  39  38  36  37  35  35  35  35  35  34	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 38 37 38 37 38 37 38 37 38 37 39 34 35 34	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  34  36  35  33  33  33  33  33  33  33  33	159 August 4  33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 35 34 35	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34	194 August 6 31 32 31 31 31 30 31 29 29 30 32 34 34 34 35 36 37 34 34	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39 40
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM	50  JRED-1250 August 1  31  31  31  32  31  37  38  38  39  38  36  37  35  35  35  35  35  34  34	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 39 34 35 34 35 34 35 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  36  35  33  33  34	159 August 4  33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 36 35 34	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  35  32  33  34  35  35  32  33  34  35  35  32  33  34  35  35  32  33  34  35  35  32  33  34	194 August 6 31 32 31 31 31 30 31 29 29 30 32 34 34 34 35 36 37 34 34 35	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39 40 36
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM 8:00 PM 8:00 PM	50  JRED-1250  August 1  31  31  32  31  37  38  38  39  38  36  37  35  35  35  35  35  34  34  34	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 39 34 35 34 35 37 39 34 35 34 35 37 39 34 35 34 35 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  36  35  33  34  35  33  34  35	159 August 4  33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 36 35 34 35 34	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  35  32  33  34  35  35  32  33  34  35  35  32  33  34	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  35  36  37  34  34  35  34	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39 40 36 35
11:00 PM  AS MEASL Time  12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 PM 1:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 8:00 PM 9:00 PM 8:00 PM 9:00 PM	50  JRED-1250  August 1  31  31  32  31  37  38  38  39  38  36  37  35  35  35  35  34  34  34  34	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 38 37 38 38 37 38 38 37 38 38 38 37 38 38 38 37 38 38 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  36  35  33  34  36  35  33  34  35  33  34  35  33  34  35  34	159 August 4 33 33 33 33 33 35 39 40 38 37 38 39 38 37 38 39 38 37 36 36 36 35 34 35 34 35 34	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  35  32  33  34  34  34	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  34  35  36  37  34  34  35  34  35  34  35	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39 40 36 35 35
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM 8:00 PM 8:00 PM	50  JRED-1250  August 1  31  31  32  31  37  38  38  39  38  36  37  35  35  35  35  35  34  34  34	63 113 14z and High August 2 31 31 31 31 33 36 38 38 37 35 34 35 37 38 37 39 34 35 34 35 37 39 34 35 34 35 37 39 34 35 34 35 37	52  gher 1/3 oc  August 3  29  30  31  31  33  35  37  35  35  34  34  36  35  33  34  35  33  34  35	159 August 4  33 33 33 33 33 35 39 40 38 37 38 39 38 37 36 36 36 35 34 35 34	53  August 5  33  32  30  30  34  36  35  33  32  33  34  35  35  32  33  34  35  35  32  33  34  35  35  32  33  34	57  194  August 6  31  32  31  31  30  31  29  29  30  32  34  34  35  36  37  34  34  35  34	56  August  33 32 31 31 30 31 32 32 33 35 36 37 39 40 42 40 39 39 40 36 35

Table A-3. Hourly 90<sup>th</sup> percentile A-weighted sound levels measured at L3 in 2022 Commonwealth Fusion Systems, Devens, MA



Time	August 1	August 2	August 3	August 4	August 5	August 6	August 7
12:00 AM	54	54	62	57	57	55	54
1:00 AM	55	49	51	52	52	53	53
2:00 AM	47	48	49	50	51	51	52
3:00 AM	51	42	56	62	53	60	51
4:00 AM	53	54	55	50	51	46	50
5:00 AM	53	57	57	57	55	65	53
6:00 AM	56	54	56	56	56	50	49
7:00 AM	59	55	56	56	56	51	50
8:00 AM	63	58	62	55	53	52	53
9:00 AM	58	57	55	56	57	51	48
10:00 AM	59	62	52	62	56	53	54
11:00 AM	57	58	53	62	54	49	53
12:00 PM	55	56	53	55	53	53	57
1:00 PM	59	55	56	53	54	52	57
2:00 PM	55	53	54	57	59	53	59
3:00 PM	57	59	5 <del>4</del>	55	62	60	57
4:00 PM	51	59	57	60	57	57	55
5:00 PM	54	60	56	53	57	53	55
6:00 PM	52	56	54	58	54	52	57
7:00 PM	50	55	51	54	53	53	52
8:00 PM	56	55	55	58	55	56	56
9:00 PM	56	58	56	56	56	56	57
	53	59	56	56	55	55	55
	53 51	61	56 54	56 54	55 55	55 55	55 57
10:00 PM 11:00 PM	51	61 111	54	54	55	55	
11:00 PM AS MEASU	51 JRED <b>125</b> 0	61 111 Hz and Hig	54 gher <b>1/3</b> oc	54 tave band	55 s truncated	55 194	57
11:00 PM AS MEASU Time	51	61 111 Hz and Hig August 2	54 gher <b>1/3</b> oc	54 tave band August 4	55 s truncated August 5	55 194 <b>August 6</b>	57 August
11:00 PM  AS MEASU  Time  12:00 AM	51 JRED <b>125</b> 0	61 111 Hz and Hig	54 gher <b>1/3</b> oc	54 tave band	55 s truncated	55 194	57 August 2
11:00 PM AS MEASU Time	51 JRED1250 August 1	61 111 Hz and Hig August 2	54 gher 1/3 oc August 3	54 tave band August 4	55 s truncated August 5	55 194 <b>August 6</b>	57 August
11:00 PM AS MEASU Time 12:00 AM 1:00 AM	51 JRED1250 August 1 33	61 111 Hz and Hi August 2	54 gher 1/3 oc August 3	tave band August 4	55 s truncated August 5	194 August 6 34	57 August
11:00 PM AS MEASU Time 12:00 AM 1:00 AM	51 JRED1250 August 1 33 32	61 111 O Hz and Hig August 2 34 33	54 gher 1/3 oc August 3 28 28	tave band August 4 35 35	55 s truncated August 5 35 34	194 August 6 34 33	57 August 35 34
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM	51  JRED1250  August 1  33  32  32	61 111 O Hz and Hig August 2 34 33 33	54 gher 1/3 oo August 3 28 28 28	54 ctave band: August 4 35 35 35	55 s truncated August 5 35 34 32	194 August 6 34 33 34	57 August 2 35 34 33
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM	51  JRED1250  August 1  33  32  32  34	61 111 O Hz and Hig August 2 34 33 33 33	54 gher 1/3 oc August 3 28 28 28 28 31	54  ctave band August 4  35  35  35  35	55 s truncated August 5 35 34 32 32	55 194 <b>August 6</b> 34 33 34 35	57 August 35 34 33 33
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM	51  JRED1250  August 1  33  32  32  34  34	61 111 O Hz and Hig August 2 34 33 33 33 34	54  gher 1/3 oo  August 3  28  28  28  31  33	54  ctave band: August 4  35  35  35  35  35	55 s truncated August 5 35 34 32 32 33	55 194 August 6 34 33 34 35 32	57 August 35 34 33 33 33
11:00 PM AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM	51  JRED1250  August 1  33  32  32  34  34  38	61 111 DHz and Hig August 2 34 33 33 33 34 38	54  gher 1/3 oc  August 3  28  28  28  31  33  36	35 35 35 35 35 35 38	55 s truncated August 5 35 34 32 32 33 34	194 August 6 34 33 34 35 32 32	35 34 33 33 33 33
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM	51  JRED1250  August 1  33  32  32  34  34  38  41	61 111 DHz and Hig August 2 34 33 33 33 34 38 41	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38	35 35 35 35 35 35 38 42	55 s truncated August 5 35 34 32 32 33 34 37	194 August 6 34 33 34 35 32 32 33	57  August 35 34 33 33 33 34 34
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM	51  JRED1250  August 1  33  32  32  34  34  38  41  42	61 111 DHz and Hig August 2 34 33 33 33 34 38 41 43	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37	35 35 35 35 35 35 34 42 42	55 s truncated August 5 35 34 32 32 33 34 37	194 August 6 34 33 34 35 32 32 33 31	35 34 33 33 33 34 34 34
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM	51  JRED1250  August 1  33  32  34  34  38  41  42  42	61 111 DHz and Hig August 2 34 33 33 34 38 41 43 41	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38	54  ctave band  August 4  35  35  35  35  35  42  42  41	55 s truncated August 5 35 34 32 32 33 34 37 37	55  194  August 6  34  33  34  35  32  32  33  31  31	35 34 33 33 33 34 34 34 34
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM	51  JRED1250  August 1  33  32  34  34  38  41  42  42  44	61 111 D Hz and Hig August 2 34 33 33 34 38 41 43 41 39 39	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  35	35 35 35 35 35 36 42 42 41 40	55 s truncated August 5 35 34 32 32 33 34 37 37 45 43	55  194  August 6  34  33  34  35  32  32  33  31  31  31  33	35 34 33 33 34 34 34 34 34 33 34
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM 10:00 AM	51  JRED1250  August 1  33  32  34  34  38  41  42  42  44  41  41	61 111 DHz and Hig August 2 34 33 33 34 38 41 43 41 39 39	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  35	35 35 35 35 35 42 42 41 40 42 41	55 s truncated August 5 35 34 32 32 33 34 37 37 45 43 36	55  194  August 6  34  33  34  35  32  32  33  31  31  31  33  35	57  August 35 34 33 33 34 34 34 34 35 37
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  42  44  41  41  40	61 111 DHz and Highter 2 34 33 33 33 34 38 41 43 41 39 39 39 40	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38	54  August 4  35 35 35 35 35 42 42 41 40 42 41 39	55 s truncated August 5 35 34 32 32 33 34 37 37 45 43 36 36	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36	57  August 33 34 33 34 34 34 34 35 37 38
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 9:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39	61 111 D Hz and Highter 2 34 33 33 33 34 38 41 43 41 39 39 39 40 40	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37	54  August 4  35 35 35 35 35 42 42 41 40 42 41 39 39	55 s truncated August 5 35 34 32 32 33 34 37 37 45 43 36 36 35	194 August 6 34 33 34 35 32 32 33 31 31 31 31 31 33 35 36	57  August  35  34  33  33  34  34  34  35  37  38  40
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38	61 111 D Hz and Highter 2 34 33 33 34 38 41 43 41 39 39 40 40 39	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37	35 35 35 35 35 35 42 42 41 40 42 41 39 39	55 s truncated August 5 35 34 32 32 33 34 37 37 45 43 36 36 35 35	194 August 6 34 33 34 35 32 32 33 31 31 31 31 33 35 36 36 36	57  August 3  35  34  33  34  34  34  35  37  38  40  40
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37	61 111 D Hz and High August 2 34 33 33 34 38 41 43 41 39 39 39 40 40 39 37	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37	35 35 35 35 35 35 36 42 42 41 40 42 41 39 39 37	55  s truncated August 5  35  34  32  32  33  34  37  37  45  43  36  36  35  35  36	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  36  39	35 34 33 33 33 34 34 34 34 35 37 38 40 40
AS MEASU Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 PM 12:00 PM 3:00 PM 3:00 PM 4:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37	61 111 D Hz and Highter 2 34 33 33 33 34 38 41 43 41 39 39 40 40 40 39 37 34	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  38  37	35 35 35 35 35 35 36 39 39 37 36 36	55  s truncated August 5  35  34  32  32  33  34  37  37  45  43  36  36  35  35  36  36	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  36  39  38	35 34 33 33 33 34 34 34 34 35 37 38 40 40 40
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM 4:00 PM 5:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37	61 111 D Hz and Hi August 2 34 33 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  38  37  38  38  37	35 35 35 35 35 35 36 39 39 37 36 36	55  s truncated August 5  35  34  32  33  34  37  37  45  43  36  36  35  36  36  34  34	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  36  39  38  37	35 34 33 33 33 34 34 34 35 37 38 40 40 40 40 38 38
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 11:00 AM 11:00 AM 11:00 PM 12:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37  35  36	61 111 D Hz and Hig August 2  34 33 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34 34 33	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  38  37  38  34  34	35 35 35 35 35 35 36 42 41 40 42 41 39 39 37 36 36 36 35	55  s truncated August 5  35  34  32  32  33  34  37  37  45  43  36  36  35  36  36  34  34  34	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  39  38  37	35 34 33 33 33 34 34 34 35 37 38 40 40 40 40 38 38
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 1:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37  35  36  36	61 111 D Hz and High August 2 34 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34 33 33 33	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  34  34	54  atave band August 4  35  35  35  35  38  42  41  40  42  41  39  39  37  36  36  36  35  35  35  35  37  36  36  37  38  38  38  38  42  41  40  42  41  40  42  41  40  42  41  40  42  41  40  42  41  39  39  37  36  36  36  35  35	55  s truncated August 5  35  34  32  33  34  37  37  45  43  36  36  35  36  36  34  34  37  35  36  37  37  37  38  38  38  38  38  38  38	194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  36  39  38  37  35  35	35 34 33 33 33 34 34 34 35 37 38 40 40 40 40 38 38 38
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 8:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37  35  36  36  36	61 111 D Hz and High August 2 34 33 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34 33 33 33 33 34	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  34  34  34  35	54  atave band August 4  35  35  35  35  38  42  41  40  42  41  39  39  37  36  36  36  35  35  36	55  s truncated August 5  35  34  32  33  34  37  37  45  43  36  36  35  36  34  34  35  36  36  34  37	55  194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  39  38  37  35  35  36  36  39  38	35 34 33 33 33 34 34 34 35 37 38 40 40 40 40 38 38 38 37
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 12:00 PM 3:00 PM 4:00 PM 6:00 PM 8:00 PM 8:00 PM 8:00 PM 8:00 PM 8:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37  35  36  36  36  36  36	61 111 D Hz and High August 2 34 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34 34 33 33 32 31	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  36  37  38  35  37  38  35  37  38  35  37  38  35  37  38  38  37  38  35  37  38  38  37  38  38  37  38  38  37  38  38	54  tave band  August 4  35  35  35  35  38  42  41  40  42  41  39  39  37  36  36  36  35  35  35  36  32	55  s truncated August 5  35  34  32  33  34  37  37  45  43  36  36  35  36  34  37  37  45  43  36  36  36  36  36  36  36  36  36	55  194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  39  38  37  35  35  36  36  37  35  36  36  36  36  37	35 34 33 33 33 34 34 34 35 37 38 40 40 40 38 38 38 37 36
AS MEASL Time 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 8:00 PM	51  JRED1250  August 1  33  32  34  34  38  41  42  44  41  40  39  38  37  37  35  36  36  36	61 111 D Hz and High August 2 34 33 33 33 34 38 41 43 41 39 39 40 40 39 37 34 34 33 33 33 33 34	54  gher 1/3 oc  August 3  28  28  28  31  33  36  38  37  38  35  37  38  38  37  38  34  34  34  35	54  atave band August 4  35  35  35  35  38  42  41  40  42  41  39  39  37  36  36  36  35  35  36	55  s truncated August 5  35  34  32  33  34  37  37  45  43  36  36  35  36  34  34  35  36  36  34  37	55  194  August 6  34  33  34  35  32  32  33  31  31  31  33  35  36  36  39  38  37  35  35  36  36  39  38	35 34 33 33 33 34 34 34 35 37 38 40 40 40 40 38 38 38 37

Table A-4. Hourly 90<sup>th</sup> percentile A-weighted sound levels measured at L4 in 2022 Commonwealth Fusion Systems, Devens, MA



# Background Increases for Two Cooler Options Quiet Fan Option Ground Mounted Option



Goddard A (1st story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option (QFO)	0	18	19	14	8	3	0	0	0	11	
Night Bkgnd + Facility	40	37	34	30	26	24	5	5	5	28	No
INIGHT BAGHU + Facility	40	3/	34	30	20		ackgro		_	0.3	INO
							acitgro		crease	0.5	
Ground Mounted Option (GMO)	0	28	25	18	10	5	0	0	0	14	
Night Bkgnd + Facility	40	38	34	30	26	24	3	3	3	28	No
						В	ackgro	und Inc	crease	0.3	
Goddard A (2nd story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option	0	19	20	15	9	5	0	0	0	12	
Night Bkgnd + Facility	40	37	34	30	26	24	5	5	5	28	No
g										0.3	
Ground Mounted Option (GMO)	0	29	25	19	11	6	0	0	0	15	
Night Bkgnd + Facility	40	38	35	30	26	24	3	3	3	28	No
										0.4	
Goddard B (1st story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option	0	20	22	18	12	8	3	0	0	15	
Night Bkgnd + Facility	40	37	34	30	26	24	6	5	5	28	No
										0.4	
Curry of Married Outland (CMO)	0	20	27	24	12	0	2	_	0	47	
Ground Mounted Option (GMO) Night Bkgnd + Facility	0 40	30 38	27 35	21 31	13 26	8 24	2	3	0	17 28	No
Night Bright + Facility	40	30	33	31	20	24	4	3	3	0.5	INO
										0.5	
Goddard B (2nd story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Goddard B (2nd story) Night Background (L4)	<b>31</b>	<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b> 26	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>	<b>A-wt</b> 28	Tone No
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	
Night Background (L4) Quiet Fan Option	40	37 22	34	30 19	26 13	24 9	0	0	0	28 16	No
Night Background (L4)	40	37	34	30	26	24	0	0	0	28 16 28	
Night Background (L4) Quiet Fan Option	40	37 22	34	30 19	26 13	24 9	0	0	0	28 16	No
Night Background (L4)  Quiet Fan Option  Night Bkgnd + Facility	40	37 22	34	30 19	26 13	24 9	0	0	0	28 16 28	No
Night Background (L4) Quiet Fan Option	0 40	37 22 37	34 23 34	30 19 30	26 13 26	9 24	0 4 7	0 0 5	0 0 5	28 16 28 0.4	No

Table B-1. Nighttime background sound level, quiet fan and ground mounted cooler options, and nighttime background plus two facility cooler options

CFS-4, Commonwealth Fusion Systems, Devens, MA



Grant North A (1st story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option	0	26	27	23	19	15	11	3	0	21	
Night Bkgnd + Facility	40	38	35	31	27	24	11	6	5	29	No
										1.0	
Ground Mounted Option (GMO)	0	33	30	24	16	11	5	0	0	20	
Night Bkgnd + Facility	40	39	35	31	26	24	6	3	3	29	No
										0.8	
Grant North A (2nd story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option	0	26	27	24	20	16	11	4	0	22	
Night Bkgnd + Facility	40	38	35	31	27	24	12	6	5	29	No
,										1.1	
Ground Mounted Option (GMO)	0	33	30	25	17	12	6	0	0	21	
Night Bkgnd + Facility	40	39	36	31	26	24	7	3	3	29	No
										0.9	
Grant North B (1st story)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L4)	40	37	34	30	26	24	0	0	0	28	No
Quiet Fan Option	0	25	26	22	18	15	11	3	0	21	
Night Bkgnd + Facility	40	38	35	31	26	24	11	6	5	29	No
										0.9	
Cround Mounted Ontion (CMO)	0	33	30	24	16	11	5	0	0	20	
Ground Mounted Option (GMO) Night Bkgnd + Facility	40	39	35	31	26	24	6	3	3	29	No
Trigit Brgila + Facility	40	33	33	31	20	24	0		3	0.8	
										0.0	
					500	1000	2000	4000	8000	A-wt	Tone
Grant North B (2nd story)	31	63	125	250	300						
Night Background (L4)	<b>31</b>	<b>63</b> 37	<b>125</b> 34	30	26	24	0	0	0	28	No
Night Background (L4)	40	37	34	30	26	24					No
Night Background (L4) Quiet Fan Option	40	37 25	34	30	26 19	24 16	11	3	0	22	
Night Background (L4)	40	37	34	30	26	24				22 29	No
Night Background (L4) Quiet Fan Option	40	37 25	34	30	26 19	24 16	11	3	0	22	
Night Background (L4) Quiet Fan Option	40	37 25	34	30	26 19	24 16	11	3	0	22 29	
Night Background (L4)  Quiet Fan Option  Night Bkgnd + Facility	0 40	37 25 38	34 26 35	30 23 31	26 19 27	24 16 24	11 12	3	0 5	22 29 1.0	

Table B-2. Nighttime background sound level, quiet fan and ground mounted cooler options, and nighttime background plus two facility cooler options

CFS-4, Commonwealth Fusion Systems, Devens, MA



New England Studios	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L2)*	43	43	51	35	29	27	0	0	0	37	Yes
*Tone in background produced by	recep	tor roc	ftop e	quipm	ent.						
Quiet Fan Option	0	22	25	22	18	16	12	2	0	21	
Night Bkgnd + Facility	43	43	51	35	30	27	12	5	5	37	Yes
										0.3	
Cround Mounted Ontion (CMO)	0	22	20	24	21	17	0	0	0	22	
Ground Mounted Option (GMO)	0 43	32	29	24	21	17	8	3	0	23	V
Night Bkgnd + Facility	43	43	51	35	30	27	9	3	3	0.3	Yes
										0.5	
Oxbow Refuge	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L3)	42	42	35	28	26	22	0	0	0	27	No
Quiet Fan Option	0	27	28	23	20	18	15	8	0	23	
Night Bkgnd + Facility	42	42	36	29	27	23	15	10	5	29	No
										1.6	
Ground Mounted Option (GMO)	0	37	36	34	29	26	19	9	0	31	
Night Bkgnd + Facility	42	43	38	35	31	27	19	10	3	33	No
										5.6	
Perimeter Rd (outside Devens)	31	63	125	250	500	1000	2000	4000	8000	A-wt	Tone
Night Background (L3)	42	42	35	28	26	22	0	0	0	27	No
Quiet Fan Option	0	19	21	18	13	10	4	0	0	15	
Night Bkgnd + Facility	42	42	35	28	26	22	7	5	5	28	No
										0.5	
Ground Mounted Option (GMO)	0	31	30	27	21	18	10	0	0	24	
Night Bkgnd + Facility	42	42	36	31	27	23	11	3	3	29	No
,										1.8	
					F00	1000	2000	4000	8000	A-wt	Tone
Savan Hills Acadamy	21	62	125	250							IOHE
Seven Hills Academy	31	63	125	250	500						No
Seven Hills Academy Night Background (L1)	<b>31</b> 46	<b>63</b> 43	<b>125</b> 39	<b>250</b>	29	26	0	0	0	31	No
	_	_		_	_						No
Night Background (L1)	46	43	39	33	29	26	0	0	0	31	No
Night Background (L1)  Quiet Fan Option	46	43	39	33	29	26	0	5	0	31 23	
Night Background (L1)  Quiet Fan Option  Night Bkgnd + Facility	46 0 46	43 20 43	39 23 40	33 22 33	29 20 30	26 18 26	0 14 15	5 7	0 0 5	31 23 32 0.7	
Night Background (L1) Quiet Fan Option	46	43	39	33	29	26	0	5	0	31 23 32	

Table B-3. Nighttime background sound level, quiet fan and ground mounted cooler options, and nighttime background plus two facility cooler options

CFS-4, Commonwealth Fusion Systems, Devens, MA



# Computer Modeling Source Inputs and Parameters



#### **Modeling Technique**

Modeling of facility sound was completed using Cadna/A (Datakustik GmbH, Version 2025 MR1). Cadna/A is a computer program that implements the modeling techniques of ISO 9613-1 and ISO 9613-2 to estimate source sound levels at community receptor locations. In calculating sound levels at receptor locations, the Cadna model accounts for reductions in facility sound pressure levels associated with propagation distance, shielding by intervening structures and topography, and absorption of sound by the atmosphere and porous surfaces.

#### **Computer Model Parameters**

A receptor elevation of 5 feet above grade has been used in estimating sound levels at all receptor property line locations and residential first floor locations, and 15 feet above grade for second-floor residential receptors.

As sound propagates through the environment, it may encounter boundaries which reflect or absorb some fraction of the incident sound. In our computer model, we have assumed that buildings are acoustically reflective (sound reduction of 1 dB), except where specifically noted. Shielding from topography and existing buildings was included in this analysis. To account for multiple reflectors, two orders of reflection have been included in computer modeling.

Based on our field observations (Google Earth images of the site), we have assigned a Ground Attenuation Coefficient (G) of 0.0 (full sound reflecting surface) for ground conditions on the CFS Campus that are paved and 0.5 (partial sound absorbing surface) for all areas outside the campus. Topography of the surrounding area has been obtained from the United States Geological Survey (USGS) and included in computer modeling.

#### **Equipment Sound Data**

Images of sound power data from equipment submittals are presented below.



#### Burner equipment and exhaust stack





#### **TECHNICAL SPECIFICATION**

#### Thermal data

Design heater capacity total 63 MW in 3 x 21 MW heaters

Net plant efficiency at full load > 90% (design 91% at 21 MW load)

FliBe fluid at heater inlet / outlet design 525°C / 625°C

FliBe fluid at heater inlet / outlet turndown 545°C / 625°C
FliBe fluid flow @ 575°C, per heater design 158.5 m³/h (316'848 kg/h, 88 kg/s) per heater

#### Site conditions

Location and country of erection Devens, Massachusetts, USA

Site of erection (FliBe heater package) indoor service, protected against weather

influences

Site of erection (control panel) indoor, control room air-conditioned.

Installation altitude < 100 m above sea level

#### Climatic conditions (to be confirmed)

FliBe fluid flow @ 585°C, per heater turndown

Temperature min. / max. 15°C / +30°C (design 25°C)
Atmosphere maritime atmosphere

Atmospheric pressure 1.015 bar

Relative humidity 76.5% @28.2°C dry bulb = 24.9 wet bulb

#### Wind (to be confirmed)

Direction Variable, but mainly from southeast

ASCE 7-10 Windspeed (3 sec peak gust in mph) Design wind speed: 138 mph (to be confirmed)

Current design speed considered: 35 m/s (78 mph)

198.6 m<sup>3</sup>/h (396'060 kg/h, 110 kg/s) per heater

Mean RI 10 year: 76 mph MRI 100 year: 109 mph

#### Rainfall (to be confirmed)

 Max. rainfall
 85 mm (app. 1 hour, 10-year storm)

 Design rainfall
 200 mm (app. 3hour, 50-year storm)

Annual average 1500 mm/year

#### **Noise limitation**

Combined noise sound pressure level (SPL) of equipment, machinery and their electric motors shall be limited to 85 dB (A) @ 1 m according to DIN 45635. Noise levels (SPL) shall be 85 dB (A) @ 1 m from every equipment, apparatus, ducts etc. At stack outlet 68 dB(A) @ 1 m according to DIN 45635.

Quotation No. 0.50.0036 Rev 2 11/36



#### Moore Fans LLC Rating Phone: (660) 376-3575 http://www.moorefans.com Fax:(660) 376-2909 Version 2.45 8/26/2025 20:42 Ref No.: Item No.: HD Class: 10000 Hub Type: Blade Type: MAG-9 MAN Blade Tip: AM Adjustment: Rotation: RH Series: 48 Diameter: 12 feet Blades: Temperature: 100 Deg. F Elevation: 500 feet Density Ratio: 0.928 157993 ACFM Volume: Air Vel.: 1527.53 fpm Speed: 146.0 RPM Static Pressure: 0.309 in H2O Pv: 0.135 in H2O Pt: 0.484 in H2O Power Reqd.: 16.07 bhp Motor: 25 bhp Total Eff: 75.0% Power @ 25 deg. 18.56 bhp Bld Natural Freq.: 4.1 Static Eff: 47.9% Blades Required: 4.04 API Blades Req.: Blade Load: 0.808 Tip Speed: 5504.1 fpm Pitch Number: 2.62 Angle at Root: Entry Correction: 1.3 22.3 deg Tip Clearance: 0.36 inches Not Applied Exit Correction: Draft: Forced Orientation: Horizontal 1799 ft. lbs 360 ft. lbs Torque Factor: Motor Torque: Torq/Bld: Approx. weight.:468 lbs (213 kgs) Inertia: 5507 lb-ft2 (232.5 kg-m2) Bore Size: inches Thrust load: 284 lbs (129 kg) Unbalance force (G6.3): 4.6 lbs (20.5 N) Bushing Type: w 1 Hub Extension: Standard Qty required: Sound Levels Per Fan ( Forced Draft) (Horizontal Orientation) See Note 2 Sound Power Level dBA HZ 63 125 250 500 1000 2000 4000 8000 82.4 79.9 83.4 81.2 78.5 74.8 71.9 69.9 Sound Pressure Level 1 meter below fan 68.3 65.8 69.3 67.1 64.4 62.7 60.7 57.8 55.8 Sound Pressure Level 1 meter radially from blade tip 63.3 60.8 64.3 62.1 59.4 55.7 52.8 50.8 Estimated Sound Pressure Level Multiple Fans (6 fans at 400 ft from periphery) 40.0 27.5 29.5 Class 10000, Series 48, 12 feet Diameter, 5 Blades Manual Adjustment, Heavy Duty, MAG, CW Rotation Aluminum Blade Material With AM Blade Tips, Fan Model No. 1048/M24-W0-A/48R-AM-9-12.00-5 Note 1: Maximum blade angle to prevent fan stall is 28.0 degrees. Available motor power may limit maximum angle to a lower value. Note 2: Sound levels are the best estimate of the fan sound with 0 dBA additional sound

included due to drive components, flow obstructions or structure reflection and reverberation.



#### Moore Fans LLC Rating Phone: (660) 376-3575 http://www.moorefans.com Fax:(660) 376-2909 Version 2.45 9/3/2025 15:19 Ref No.: Item No.: 10000 HD хc Class: Hub Type: Blade Type: Rotation: хт MAN RH Blade Tip: Adjustment: Series: 36 Diameter: 11.5 feet Blades: Temperature: 100 Deg. F Elevation: 500 feet Density Ratio: 0.928 Volume: 156053 ACFM Air Vel.: 1573.92 fpm Speed: 194.0 RPM Static Pressure: 0.41 in H2O Pt: 0.596 in H2O Pv: 0.143 in H2O Power Regd.: 17.24 bhp Motor: 25 bhp Total Eff: 85.0% Power @ 25 deg 19.91 bhp Bld Natural Freq.: 5.5 Hz Static Eff: 58.5% Blades Required: 3.49 API Blades Req.: Blade Load: 0.873 7008.9 fpm 57.7 deg. Pitch Number: 2.70 Tip Speed: Deflection Angle: 14.0 deg Entry Correction: 1.3 Tip Clearance: **0.345** inches Angle at Root: Not Applied Exit Correction: Draft: Forced Orientation: Horizontal Torque Factor: Motor Torque: 1354 ft. lbs Torq/Bld: 338 ft. lbs Approx. weight.:126 lbs (57 kgs) Inertia: 1006 lb-ft2 (42.5 kg-m2) Bore Size: inches Unbalance force (G6.3): 1.6 lbs (7.1 N) Thrust load: 322 lbs (146 kg) Bushing Type: TT Qty required: One blade missing load: 919 lbs (418 kg) Hub Extension: Standard 1 Sound Levels Per Fan ( Forced Draft) (Horizontal Orientation) See Note 2 Sound Power Level dBA HZ 63 125 250 500 1000 2000 4000 8000 87.3 93.3 92.3 89.3 84.3 82.3 76.3 70.3 64.3 Sound Pressure Level 1 meter below fan 73.5 79.5 78.5 68.5 62.5 56.5 50.5 Sound Pressure Level 1 meter radially from blade tip 68.4 73.4 57.4 51.4 45.4 Estimated Sound Pressure Level Multiple Fans (6 fans at 400 ft from periphery) 44.9 50.9 49.9 46.9 41.9 39.9 21.9 33.9 27.9 Class 10000, Series 36, 11.5 feet Diameter, 4 Blades Manual Adjustment, Heavy Duty, XC Chord, CW Rotation Aluminum Blade Material With XT Blade Tips, Fan Model No. 1036/073-U0-A/36R-XT-8-11.50-4 Note 1: Maximum blade angle to prevent fan stall is 19.4 degrees. Available motor power may limit maximum angle to a lower value. Note 2: Sound levels are the best estimate of the fan sound with 0 dBA additional sound

included due to drive components, flow obstructions or structure reflection and reverberation.



Massachusetts Department of
Environmental Protection
Form BWP AQ Sound
Commonwealth Fusion Systems
Building 4 (CFS-4)
Devens, Massachusetts





Bureau of Waste Prevention - Air Quality

#### **BWP AQ Sound**

Submit alone and/or with Form CPA-FUEL and/or CPA-PPROCESS whenever the construction or alteration of stationary equipment (e.g. electrical generating equipment, motors, fans, process handling equipment or similar sources of sound) has the potential to cause noise, or in response to a MassDEP enforcement action citing noise as a condition of air pollution.

Transmittal Number

Facility ID (if known)

Important: When filling out forms on the computer, use only the tab key to move your cursor -do not use the return key.





#### Introduction

When proposing sound suppression/mitigation measures, similar to the traditional "top-down" BACT process, the "top case" sound suppression/mitigation measures which deliver the lowest sound level increase above background are required to be implemented, unless these measures can be eliminated based upon technological or economic infeasibility. An applicant cannot "model out" of the use of the "top case" sound suppression/ mitigation measures by simply demonstrating that predicted sound levels at the property line when employing a less stringent sound suppression/mitigation strategy will result in a sound level increase of less than or equal to the 10 dBA (decibel, A –Weighted) above background sound level increase criteria contained in the MassDEP Noise Policy. A 10 dBA increase is the maximum increase allowed by MassDEP; it is not the sound level increase upon which the design of sound suppression/mitigation strategies and techniques should be based. Also, take into consideration that the city or town that the project is located in may have a noise ordinance (or similar) that may be more stringent than the criteria in the MassDEP Noise Policy

#### A. Sound Emission Sources & Abatement Equipment/Mitigation Measures

 Provide a description of the source(s) of sound emissions and associated sound abatement equipment and/or mitigation measures. Also include details of sound emission mitigation measures to be taken during construction activities.

A Bertrams Heatec furnace is noted by the manufacturer to have a combined sound pressure level (SPL) of equipment, machinery and their electric motors of not more than 85 dB(A) @ 1 m according to DIN 45635. Sound levels shall be 85 dB A) @ 1m from every equipment, apparatus, ducts etc. At stack outlet 68 dB(A) @ 1 m according to DIN 45635.

Two options are being studied for the dry coolers. Option 1 is to outfit coolers with quiet fans by Moore Fans LLC or Option 2 gound mounting the coolers to take advantage of sheilding by the neighboring campus building being designed.

#### B. Manufacturer's Sound Emission Profiles & Sound Abatement Equipment

Please attach to this form the manufacturer's sound generation data for the equipment being proposed for installation, or the existing equipment as applicable. This data must specify the sound pressure levels for a complete 360° circumference of the equipment and at given distance from the equipment. Also attach information provided by the sound abatement manufacturer detailing the expected sound suppression to be provided by the proposed sound suppression equipment.

#### C. Plot Plan

Provide a plot plan and aerial photo(s) (e.g. GIS) that defines: the specific location of the proposed or existing source(s) of sound emissions; the distances from the source(s) to the property lines; the location, distances and use of all inhabited buildings (residences, commercial, industrial, etc) beyond the property lines; identify any areas of possible future construction beyond the property line; and sound monitoring locations used to assess noise impact on the surrounding community. All information provided in the sound survey shall contain sufficient data and detail to adequately assess any sound impacts to the surrounding community, including elevated receptors as applicable, not necessarily receptors immediately outside the facility's property line.

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#### D. Community Sound Level Criteria

Approval of the proposed new equipment or proposed corrective measures will **not** be granted if the installation:

- Increases off-site broadband sound levels by more than 10 dBA.above "ambient" sound levels. Ambient is
  defined as the lowest one-hour background A-weighted sound pressure level that is exceeded 90 percent
  of the time measured during equipment operating hours. Ambient may also be established by other
  means with the consent of MassDEP.
- Produces off-site a "pure tone" condition. "Pure tone" is defined as when any octave band center frequency sound pressure level exceeds the two adjacent frequency sound pressure levels by 3 decibels or more.
- 3. Creates a potential condition of air pollution as defined in 310 CMR 7.01 and the MassDEP Noise Policy.

Note: These criteria are measured both at the property line and at the nearest inhabited building.

For equipment that operates, or will be operated intermittently, the ambient or background noise measurements shall be performed during the hours that the equipment will operate and at the quietest times of the day. The quietest time of the day is usually between 1:00 a.m. and 4:00 a.m. on weekend nights. The nighttime sound measurements must be conducted at a time that represents the lowest ambient sound level expected during all seasons of the year.

For equipment that operates, or will operate, continuously and is a significant source of sound, such as a proposed power plant, background shall be established via a minimum of seven consecutive days of continuous monitoring at multiple locations with the dBA L 90 data and pure tone data reduced to one-hour averages.

In any case, consult with the appropriate MassDEP Regional Office before commencing noise monitoring in order to establish a sound monitoring protocol that will be acceptable to MassDEP.

#### E. Full Octave Band Analysis

The following community sound profiles will require the use of sound pressure level measuring equipment in the neighborhood of the installation. An ANSI S1.4 Type 1 sound monitor or equivalent shall be use for all sound measurements. A detailed description of sound monitor calibration methodology shall be included with any sound survey.

- 1. Lowest ambient sound pressure levels during operating hours of the equipment.
  - a. At property line:

A-Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K
See rpt.										



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Facility ID (if known)

#### E. Full Octave Band Analysis (continued)

b. At the nearest inhabited building and if applicable at buildings at higher elevation:

A- Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K
See rpt.										

- Note: You are required to complete sound profiles 2a and 2b only if you are submitting this form in response to a MassDEP enforcement action citing a noise nuisance condition. If this is an application for new equipment, Skip to 3.
- 2. Neighborhood sound pressure levels with source operating without sound abatement equipment.
  - a. At property line:

	A- Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K
f											

b. At the nearest inhabited building and if applicable at buildings at higher elevation:

A- Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K

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Transmittal	Number

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#### E. Full Octave Band Analysis (continued)

- 3. Expected neighborhood sound pressure levels after installation of sound abatement equipment.
  - a. At property line:

A- Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K
See rpt.										

b. At nearest inhabited building and if applicable at buildings at higher elevations:

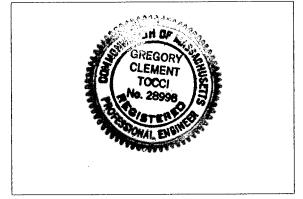
A- Weighted	31.5	63.0	125	250	500	1K	2K	4K	8K	16K
See rpt.							İ			

Note: MassDEP may request that actual measurements be taken after the installation of the noise abatement equipment to verify compliance at all off-site locations.

#### F. Professional Engineers Stamp

The seal or stamp and signature of a Massachusetts Registered Professional Engineer (P.E.) must be entered below. Both the seal or stamp impression and the P.E. signature must be original. This is to certify that the information contained in this Form has been checked for accuracy, and that the design represents good air pollution control engineering practice.

Gregory C. Tocci
P.E. Name (Type or Print)
, , ,
P.E. Signature
Sr. Principal Consultant
Position/Title
Cavanaugh Tocci
Company
September 22, 2025
Date (MM/DD/YYYY)
28998
P.E. Number





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Transm	nittal	Number	

Facility ID (if known)

#### G. Certification by Responsible Official

The signature below provides the affirmative demonstration pursuant to 310 CMR 7.02(5)(c)8 that any facility(ies) in Massachusetts, owned or operated by the proponent for this project (or by an entity controlling, controlled by or under common control with such proponent) that is subject to 310 CMR 7.00, et seq., is in compliance with, or on a MassDEP approved compliance schedule to meet, all provisions of 310 CMR 7.00, et seq., and any plan approval, order, notice of noncompliance or permit issued thereunder. This Form must be signed by a Responsible Official working at the location of the proposed new or modified facility. Even if an agent has been designated to fill out this Form, the Responsible Official must sign it. (Refer to the definition given in 310 CMR 7.00.)

I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment.

Responsible Official Name (Type or Print)	
Responsible Official Signature	This Space Reserved for
Responsible Official Title	MassDEP Approval Stamp.
Responsible Official Company/Organization Name	
Date (MM/DD/YYYY)	