



AERMOD Screening Dispersion Factors for INL Facilities

September 2022

Changing the World's Energy Future

A Jeffrey Sondrup



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September 2022

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AERMOD Screening Dispersion Factors for INL Facilities

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9. Objective / Purpose		
<p>This engineering calculations and analysis report (ECAR) documents the calculation of screening-level air dispersion factors (DFs) for use in identifying Idaho National Laboratory (INL) air pollutant sources that would not be of concern relative to state of Idaho Department of Environmental Quality (DEQ) significant impact levels for toxic air pollutants (IDAPA 2020). A DF (in units of s/m^3) is the maximum time-averaged model-predicted air concentration (g/m^3) at an ambient-air receptor location divided by a unit source release or emission rate (1 g/s). DFs were calculated for a generic pollutant released from facilities at the INL Site and the Idaho Falls Research Education Campus (REC) using the Environmental Protection Agency (EPA)-recommended AERMOD air-dispersion model (EPA 2019a) and site-specific meteorological data. The use of AERMOD for air quality analyses is specified by EPA in Appendix W of 40 CFR Part 51, Guideline on Air Quality Models, and by DEQ in their air modeling guidance (DEQ 2013). DFs were calculated for 1-hour, 3-hour, 8-hour, 24-hour, monthly, and annual averaging times.</p>		
10. If revision, please state the reason and list sections and/or page being affected.		
<p>Revision 2 changes:</p> <ul style="list-style-type: none">Replaced Figures 3, 4 and 5 because EIL and ESL labels were incorrectly switched. <p>Revision 1 changes (see Discussion/Analysis Section):</p> <ul style="list-style-type: none">Critical Infrastructure and Test Range Complex was added as a potential emission source for the INL Site simulations.Additional emission sources were added for Idaho Falls REC simulations.Updated discrete receptor locations provided by DEQ were used for INL Site simulations.DFs were calculated on a grid for the entire INL Site, in addition to the discrete receptor locations.No discrete receptor locations were assigned for REC facilities. DFs were calculated on a grid.All model simulations were performed with a more recent version of AERMOD (Version 19191) using more recent model-ready meteorological data files provided by DEQ. Data for INL Site simulations is from 2013-2017. Data for Idaho Falls simulations is from 2015-2019.		

- All INL Site simulations were performed with data from the Grid 3 Mesonet station located north of Idaho Nuclear Technology and Engineering Center near the center of the INL Site. Previous simulations used data from the Grid 3, Radioactive Waste Management Complex, Test Area North, and the Materials and Fuels Complex stations.
- All simulations used AERMET files processed with the METHOD STABLEBL ADJ_U* option, which adjusts the surface-friction velocity (u^* or u_{star}) for low wind speed stable conditions. This option was not available in AERMET when Revision 0 of this ECAR was produced.
- Building wake effects were included for REC simulations.

11. Conclusion / Recommendations

DFs were calculated for discrete receptor locations for INL Site facilities, and on a grid for both INL Site and Idaho Falls REC facilities. Discrete receptors are locations currently accessible to members of the public. DFs were also calculated on a grid to determine ambient air impacts at locations not currently accessible by members of the public that may be accessible in the future. These DFs can be used as a first-level screening tool by environmental regulatory/permitting staff to identify/categorize small INL air pollutant sources with potential toxic air pollutant emission rates.

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PROJECT ROLES AND RESPONSIBILITIES

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Responsibilities:

- Confirmation of completeness, mathematical accuracy, and correctness of data and appropriateness of assumptions.
- Concurrence of method or approach. See definition, LWP-10106.
- Concurrence with the document's markings in accordance with LWP-11202.
- Concurrence of procedure compliance. Concurrence with method/approach and conclusion.
- Authorizes the commencement of work of the engineering deliverable.
- Concurrence with the document's assumptions and input information. See definition of Acceptance, LWP-10200.

SCOPE AND BRIEF DESCRIPTION

This engineering calculations and analysis report (ECAR) documents the calculation of screening-level air dispersion factors (DFs) for use in identifying Idaho National Laboratory (INL) air pollutant sources that would not be of concern relative to state of Idaho Department of Environmental Quality (DEQ) significant impact levels for toxic air pollutants (IDAPA 2020). These DFs can similarly be applied to criteria air pollutants to estimate impacts to ambient air quality standards (NAAQS) with the understanding that the resulting concentrations only represent the impacts from the specified source. A DF (in units of s/m^3) is the maximum time-averaged model-predicted air concentration (g/m^3) at an ambient air receptor location divided by a unit source release or emission rate (1 g/s). DFs were calculated for a generic pollutant released from facilities at the INL Site and the Idaho Falls Research Education Campus (REC) using the U.S. Environmental Protection Agency (EPA)-recommended AERMOD air-dispersion model (EPA 2019) and site-specific meteorological data processed with AERMET (EPA 2019b). The use of AERMOD in air-quality analyses is specified by EPA in Appendix A of 40 CFR Part 51, *Guideline on Air Quality Models*, and by DEQ in their air modeling guidance (DEQ 2013).

DFs were calculated for discrete receptor locations for INL Site facilities and on a grid for both INL Site and Idaho Falls Research Education Campus (REC) facilities. Discrete receptors are locations currently accessible to members of the public. Discrete receptor locations for the INL Site were provided by DEQ modeling staff for INL air-quality assessments using AERMOD. DFs were also calculated on a grid to determine ambient air impacts at locations not currently accessible by members of the public that may be accessible in the future. These DFs can be used as a first-level screening tool by environmental regulatory and permitting staff to identify and categorize small INL air-pollutant sources with potential hazardous air-pollutant emission rates.

DESIGN OR TECHNICAL PARAMETER INPUT AND SOURCES

1. **Meteorological Data**—Model-ready meteorological data files were provided by DEQ in AERMOD input format. All meteorological data were processed by Idaho DEQ modeling personnel with AERMET, AERSURFACE, and AERMINUTE using Oris Solutions' BEEST graphical user interface. The datasets were constructed from National Weather Service (NWS) surface Hourly Met Data and 1-minute automated surface observing station (ASOS) wind data, collected from local meteorological stations, and upper-air soundings collected at the Boise Airport NWS station (Station ID 24131). Surface data for INL Site model simulations were taken from the Grid 3 Mesonet station located at 43.5897°N 112.9399°W, north of the Idaho Nuclear Technology and Engineering Complex (INTEC) near the center of the INL Site. INL Site data cover the 5-year period 2013 to 2017. Surface data for Idaho Falls REC simulations were taken from the Idaho Falls station (Station ID 725785-24145) at the Idaho Falls Regional Airport, located 1 to 2 km west of INL REC facilities. The Idaho Falls REC data cover the 5-year period 2015 to 2019. All simulations used AERMET files processed with the METHOD STABLEBL ADJ_U* option, which enhances model operation by adjusting the surface friction velocity (u^* or u_{star}) for low wind speeds under stable conditions. Descriptions of the processing of the INL Site and Idaho Falls datasets can be found in Appendices A and B, respectively.

2. **Terrain Data**—Terrain data for all discrete and grid receptor locations were processed with the computer code AERMAP (Version 18081). National elevation data (NED) required by AERMAP were downloaded from the EPA File Transfer Protocol (FTP) server at <ftp://newftp.epa.gov/Air/aqmg/3dep>. The server files were converted using the GDAL Translate program (<http://gdal.org>) to convert the 1 × 1 degree, 1 arc-second and 2 arc-second GeoTIFF files (with compression) to GeoTIFF files (without compression) that can be processed directly with AERMAP without additional conversion or manipulation. One-arcsecond resolution files were used for all simulations. Datasets are available in 1-degree latitude and longitude blocks. Four blocks of data were required for the INL Site model domain (44 to 46 degrees north latitude, 113 to 115 degrees west longitude) and 1 block (44 to 45 degrees north latitude, 113 to 114 degrees west longitude) for the Idaho Falls REC model domain.
3. **Other Data**—All other data sources and references are provided in the Discussion/Analysis section.

RESULTS OF LITERATURE SEARCHES AND OTHER BACKGROUND DATA

See Discussion/Analysis and References Sections.

ASSUMPTIONS

See Discussion/Analysis Section.

COMPUTER CODE VALIDATION

All computer-code modeling and calculations were performed on a Dell Precision 7820 desktop computer (Intel Xeon Silver 4110 CPU @ 2.10 GHz, Property Tag 608407) running Microsoft Windows 10 Enterprise (Version 1909, OS Build 18363.1256).

Atmospheric-transport modeling was performed with the most recent version of the U.S. EPA-approved AERMOD modeling system (Version 19191) (EPA 2019a). Meteorological data files for INL Site and Idaho Falls simulations were supplied by DEQ (see Appendices A and B). Five years of meteorological data (2013–2017) for INL Site simulations were processed with AERMET (Version 18081), AERMINUTE (Version 15271), and AERSURFACE (Version 13016). Five years of meteorological data (2015–2019) for Idaho Falls simulations were processed with AERMET (Version 19191), AERMINUTE (Version 15272), and AERSURFACE (Version 20060). Five years of contiguous meteorological data from an airport or 1 year of site-specific data are considered by the state of Idaho to be sufficient to perform air-quality assessments (40 CFR 51 Appendix W). Terrain data for all discrete and grid-receptor locations were processed with AERMAP (Version 18081).

Building wake-effect parameters were determined using the EPA Building Profile Input Program with Plume Rise Enhancement (BPIP-PRIME) (EPA 2004), Version 04274, designed for use with AERMOD. BPIP-PRIME was run under the BEEST for Windows platform (BEE-Line Software, Version 9.95).

AERMOD is EPA's preferred modeling system for near-field dispersion modeling for regulatory activities (40 CFR 51, Appendix W). AERMET and AERMAP are regulatory components of the AERMOD modeling system. AERSURFACE and BPIP-PRIME are not regulatory components, but are tools developed by EPA to support application of AERMOD. AERMOD and supporting components are supplied as executable (*.exe) programs on EPA's Support Center for Regulatory Atmospheric Modeling (SCRAM) website (<https://www.epa.gov/scram>). The programs were downloaded directly from the SCRAM website and run as executables (not recompiled). Numerous standard test cases and model validation reports are available on the SCRAM website that document EPA's validation of the AERMOD modeling system functionality and accuracy. These test cases have been reviewed by the INL modelers.

Other software used includes: SURFER (Version 8.01) from Golden Software, Inc., used to create DF contour plots; CORELDRAW 2019 (64-Bit) (Version 21.1.0.643), used for preparation of graphics, and Microsoft Excel for Microsoft 365 MSO (16.0.13426.20270) 32-bit, used for data keeping and grid generation.

All electronic files, including computer input, output, and spreadsheet files, are contained in a zip file that can be accessed by selecting "Additional Information" (select Native File) in the INL Electronic Document Management System.

DISCUSSION/ANALYSIS

Dispersion Factor

A DF is the maximum model-predicted air concentration (g/m^3) at a receptor location divided by a unit source release rate (1 g/s). No deposition or plume depletion was included in the simulations. DFs can be used as a first-level screening tool by INL environmental regulatory/permitting staff to estimate impacts of airborne emissions. DFs were determined by simulating the dispersion of a unit emission or release rate (1 g/s) of a generic pollutant from INL facilities. Time-averaged model concentrations from AERMOD output were calculated for 1-hour, 3-hour, 8-hour, 24-hour, monthly, and annual averaging times. Time-averaged DFs were then calculated using the formula:

(1)

where

DF_i = screening DF (s/m^3) for averaging time i

Cu_i = maximum time-averaged concentration for a unit release rate (1 g/s) for averaging time i (from AERMOD output in $\mu\text{g}/\text{m}^3$).

Maximum ambient air impacts for a given pollutant and averaging period (C_i in $\mu\text{g}/\text{m}^3$) are obtained by multiplying the appropriate DF by the actual source release rate of that pollutant (in g/s) and the conversion factor $1 \times 10^6 \mu\text{g/g}$ as shown below:

(2)

where

ER_i = actual or estimated release rate of pollutant for averaging time i (g/s)

INL Site Modeling

Model Domain, Sources and Receptor Locations

The model domain for INL Site simulations is 62 km × 66 km (4092 km²) and encompasses the entire INL Site (see Figure 1). Separate modeling runs were made for the following INL Site facilities:

- Advanced Test Reactor (ATR) Complex
- Central Facilities Area (CFA)
- Critical Infrastructure and Test Range Complex (CITRC)
- Idaho Nuclear Technology and Engineering Complex (INTEC)
- Materials and Fuel Complex (MFC)
- Naval Reactors Facility (NRF)
- Radioactive Waste Management Complex (RWMC)
- Specific Manufacturing Capability (SMC) at Test Area North (TAN)

Time-averaged DFs for the INL Site were calculated at both discrete receptor locations and grid receptor locations defined in UTM coordinates based on datum North American Datum of 1983 (NAD 83). Discrete receptors are locations currently accessible to members of the public. A total of 1352 discrete receptor locations for the INL Site were provided by DEQ modeling staff for AERMOD air-quality assessments (see Figure 2). These discrete receptor locations are spaced approximately every 500 meters around the INL Site boundary and along highways that transect the INL Site and other public-access areas (e.g., EBR-I). Finer spacing (~100 meters) was used near facilities where contaminant concentrations may be higher (i.e., along U.S. Highway 20/26 south of CFA, from US Highway 20 to the MFC guard shack, and along U.S. Highway 33 near the entrance to SMC. Finer spacing was also used in areas around EBR-I (~40 meters) and Atomic City (~200 meters).

DFs were also calculated on a grid to determine ambient-air impacts at locations not currently accessible by members of the public that may be accessible in the future. Grid-receptor locations are based on a uniform 500-m spacing, which results in a 125 × 131 grid, or 16,625 potential grid-receptor locations (see Figure 2).

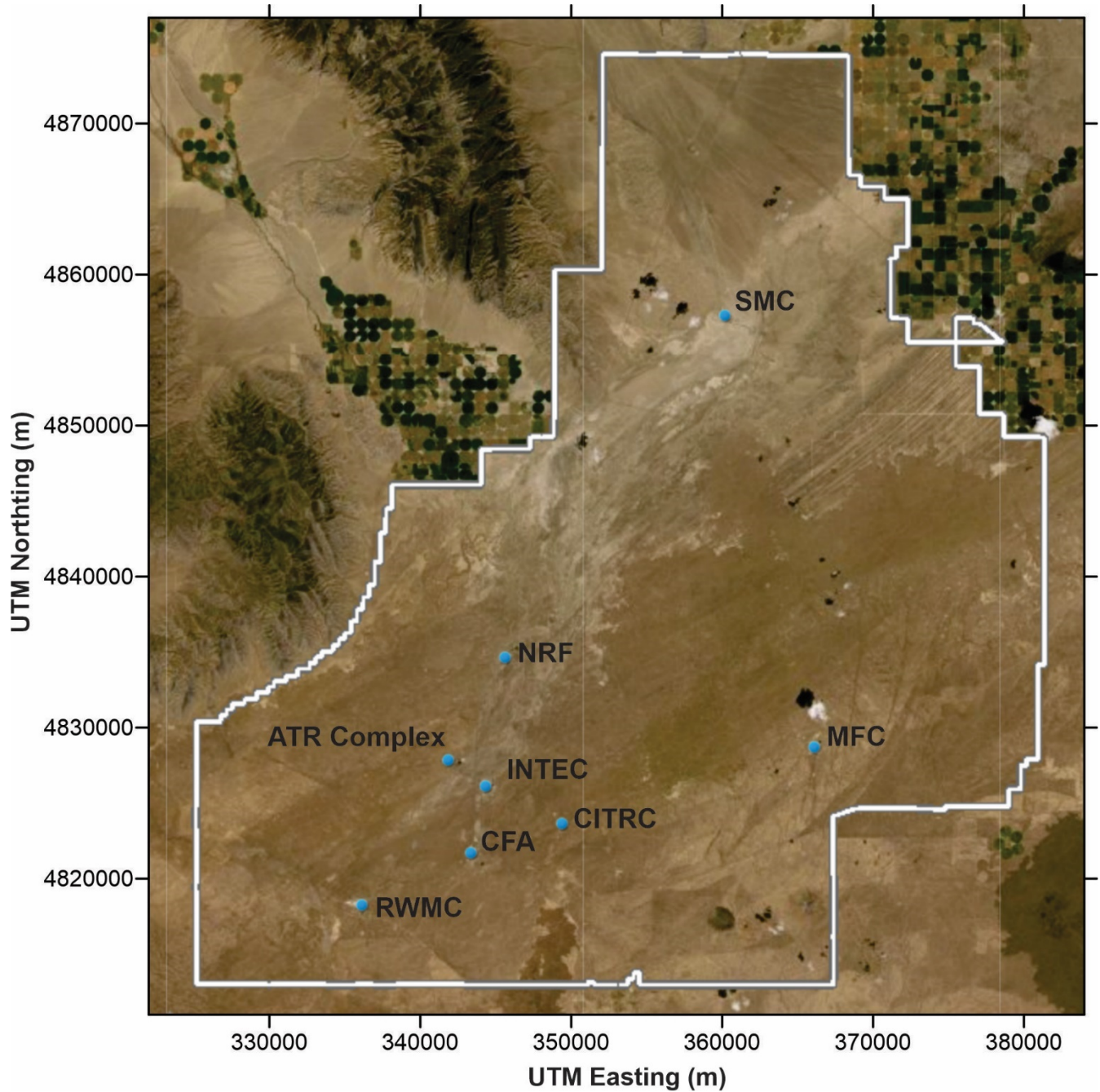


Figure 1. INL Site model domain and facility source locations (blue circles).

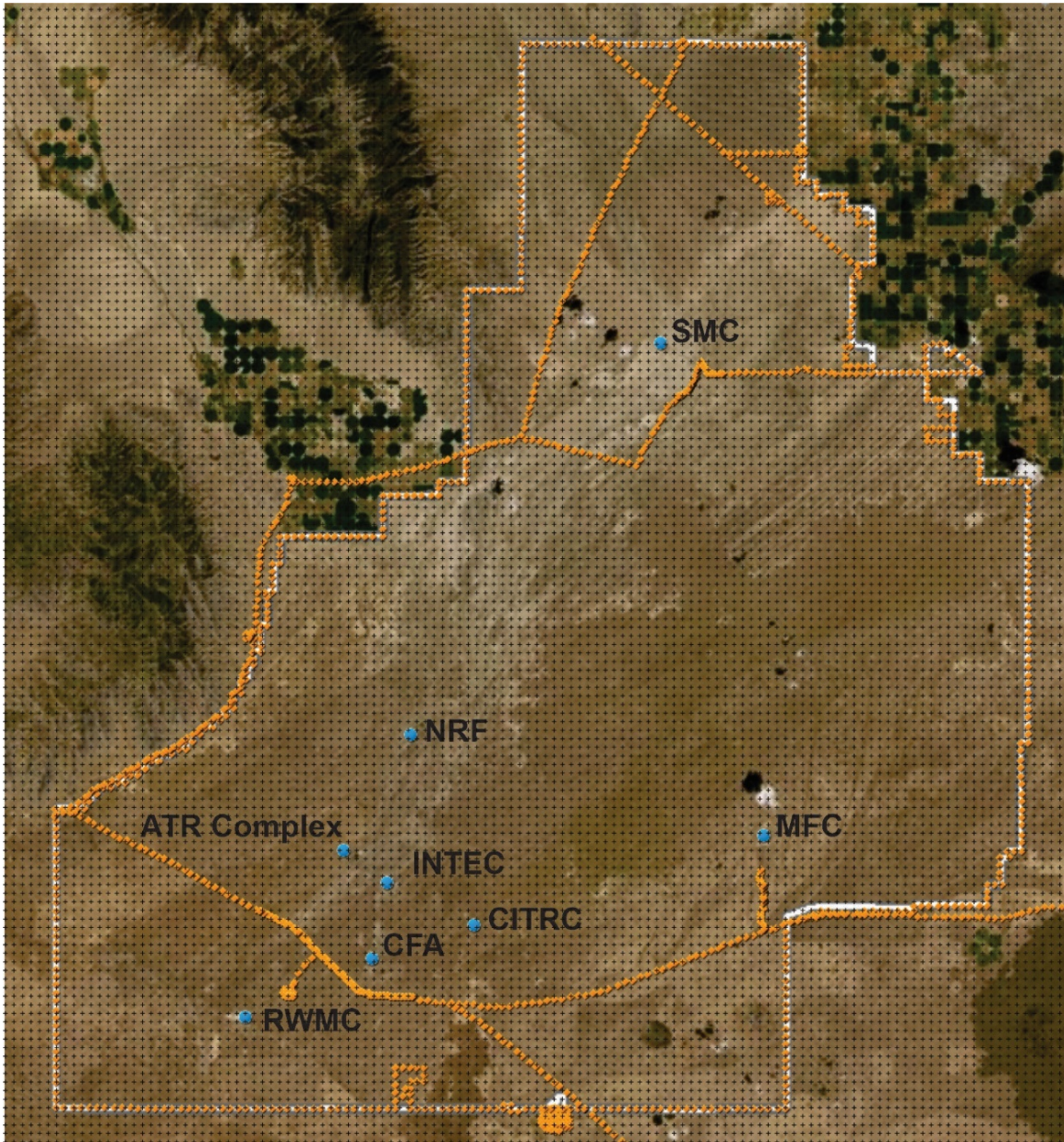


Figure 2. Discrete receptor locations (1352 orange diamonds) and grid receptor locations (16,625 black crosses).

Because there are several possible source locations at each INL Site facility, releases were assumed to occur near the geographic center of each facility from near ground-level (1-m high). No building wake effects were included, and releases assumed no buoyant or momentum plume rise (exit temperature = 20°C, exit velocity = 0 m/s).

INL Site Dispersion Factors

Maximum DFs by averaging time for each INL Site facility are provided in Table 1 for discrete receptor locations. To estimate maximum ambient air impacts for a given pollutant (in $\mu\text{g}/\text{m}^3$), the appropriate DF from Table 1 (s/m^3) is multiplied by the actual source emission rate of that pollutant (in g/s) and the conversion factor $1 \times 10^6 \mu\text{g}/\text{g}$ (see Equation 2). This is the maximum concentration from all discrete receptor locations shown in Figure 2. For other potential receptor locations, grid DFs can be used to calculate maximum concentrations. Grid DFs were calculated for each facility and averaging period at each of the 16,625 grid nodes shown in Figure 2. Because this is nearly 800,000 values, it is not feasible to include the DFs for each grid receptor in this document. Therefore, a Microsoft Excel spreadsheet file (INLSiteGridDispersionFactors_forECAR-2078r1.xlsx) with all grid-dispersion factors is contained in a zip file that can be accessed by selecting "Additional Information" (select Native File) in the INL Electronic Document Management System. Appendix C however contains contour plots of grid DFs for each facility and averaging period. The grid DFs in the contour plots were multiplied by $1 \times 10^6 \mu\text{g}/\text{g}$ before contouring, so values inferred or extrapolated from the contour plots should only be multiplied by the emission rate in g/s to obtain the maximum ambient air concentration.

Table 1. Maximum dispersion factors by averaging times for INL Site facilities. The receptor ID (Rec ID) and coordinates (northing/easting) where the maximum dispersion factor occurred is provided.

Facility	Averaging Time ^a	Dispersion		UTM		Description of Location of Maximum Impact
		Factor (s/m^3)	Rec ID	UTM Easting (m)	UTM Northing (m)	
ATR Complex	1-hr	6.80E-05	1043	339283	4822354	US Highway 20 SSW of ATR Complex
	3-hr	3.12E-05	1039	339012	4822642	US Highway 20 SSW of ATR Complex
	8-hr	1.57E-05	1067	340930	4820714	US Highway 20 S of ATR Complex
	24-hr	5.90E-06	1028	338267	4823433	US Highway 20 SSW of ATR Complex
	Monthly	6.91E-07	1028	338267	4823433	US Highway 20 SSW of ATR Complex
	Annual	1.36E-07	1028	338267	4823433	US Highway 20 SSW of ATR Complex
	Annual SB	3.59E-08	549	341186	4812588	INL Site boundary S of ATR Complex
CFA	1-hr	1.41E-04	1084	342090	4819567	US Highway 20 S of CFA
	3-hr	9.68E-05	1079	341751	4819906	US Highway 20 S of CFA
	8-hr	6.30E-05	1091	342682	4819360	US Highway 20 S of CFA
	24-hr	2.48E-05	1091	342682	4819360	US Highway 20 S of CFA
	Monthly	3.15E-06	1079	341751	4819906	US Highway 20 S of CFA
	Annual	7.64E-07	1088	342420	4819430	US Highway 20 S of CFA
	Annual SB	8.23E-08	546	342670	4812546	INL Site boundary S of CFA
CITRC	1-hr	7.08E-05	885	347445	4818664	US Highway 20 SSW of CITRC
	3-hr	2.36E-05	885	347445	4818664	US Highway 20 SSW of CITRC
	8-hr	1.82E-05	922	348880	4818572	US Highway 20 S of CITRC
	24-hr	7.08E-06	922	348880	4818572	US Highway 20 S of CITRC
	Monthly	7.94E-07	922	348880	4818572	US Highway 20 S of CITRC
	Annual	1.94E-07	922	348880	4818572	US Highway 20 S of CITRC
	Annual SB	6.42E-08	534	345854	4814920	INL Site boundary SSW of CITRC
INTEC	1-hr	6.35E-05	1077	341616	4820042	US Highway 20 SSW of INTEC
	3-hr	2.57E-05	1072	341275	4820379	US Highway 20 SSW of INTEC
	8-hr	1.41E-05	1099	343438	4819257	US Highway 20 S of INTEC

AERMOD Screening Dispersion Factors for INL Facilities

Facility	Averaging Time ^a	Dispersion Factor (s/m ³)	Rec ID	UTM Easting (m)	UTM Northing (m)	Description of Location of Maximum Impact
	24-hr	5.37E-06	1099	343438	4819257	US Highway 20 S of INTEC
	Monthly	6.32E-07	1103	343826	4819220	US Highway 20 S of INTEC
	Annual	1.20E-07	1103	343826	4819220	US Highway 20 S of INTEC
	Annual SB	5.44E-08	538	344177	4814966	INL Site boundary S of INTEC
MFC	1-hr	1.69E-04	1126	366166	4826253	MFC Guard Shack, N of US Highway 20
	3-hr	1.03E-04	1176	366171	4826155	MFC Guard Shack, N of US Highway 20
	8-hr	9.55E-05	1176	366171	4826155	MFC Guard Shack, N of US Highway 20
	24-hr	3.52E-05	1176	366171	4826155	MFC Guard Shack, N of US Highway 20
	Monthly	2.95E-06	1126	366166	4826253	MFC Guard Shack, N of US Highway 20
	Annual	7.81E-07	1126	366166	4826253	MFC Guard Shack, N of US Highway 20
	Annual SB	7.06E-08	452	367591	4823054	INL Site boundary SSE of MFC, INL East Entrance
NRF	1-hr	2.56E-05	630	336065	4839394	INL Site boundary ENE of NRF
	3-hr	1.14E-05	1048	339622	4821994	US Highway 20 SSW of NRF
	8-hr	6.81E-06	1110	344504	4819155	US Highway 20 S of NRF
	24-hr	2.34E-06	1110	344504	4819155	US Highway 20 S of NRF
	Monthly	2.56E-07	881	345742	4818926	US Highway 20 S of NRF
	Annual	3.49E-08	1119	345279	4819127	US Highway 20 S of NRF
	Annual SB	2.48E-08	535	345434	4814932	INL Site boundary S of NRF
RWMC	1-hr	6.95E-05	1310	337621	4819480	EBR-I, NE of RWMC
	3-hr	2.61E-05	1311	337614	4819368	EBR-I, NE of RWMC
	8-hr	1.74E-05	562	334751	4812770	INL Site boundary S of RWMC
	24-hr	6.49E-06	562	334751	4812770	INL Site boundary S of RWMC
	Monthly	1.17E-06	561	335246	4812756	INL Site boundary S of RWMC
	Annual	2.94E-07	1311	337614	4819368	EBR-I, NE of RWMC
	Annual SB	1.86E-07	561	335246	4812756	INL Site boundary S of RWMC
SMC	1-hr	8.60E-05	1194	362826	4855324	ID State Highway 33 SE of SMC
	3-hr	2.87E-05	1194	362826	4855324	ID State Highway 33 SE of SMC
	8-hr	1.87E-05	713	360676	4852808	ID State Highway 33 S of SMC
	24-hr	7.27E-06	713	360676	4852808	ID State Highway 33 S of SMC
	Monthly	1.05E-06	715	361036	4853471	ID State Highway 33 S of SMC
	Annual	2.26E-07	715	361036	4853471	ID State Highway 33 S of SMC
	Annual SB	2.54E-08	256	369077	4866783	INL Site boundary NE of SMC

For carcinogenic pollutant impacts, where regulatory criteria are based on long-term exposures to the public, DFs at INL Site boundary receptors ("Annual SB" in Table 1) should be used. For all other assessments, the appropriate time-averaged DFs should be used.

SB = INL Site Boundary

UTM = Universal Transverse Mercator, Zone 12

Idaho Falls REC Simulations

Model Domain, Sources, and Receptor Locations

The model domain for Idaho Falls REC facilities is 2400 m × 2000 m (4.8 km²) and encompasses five facilities that could potentially release pollutants into the atmosphere (see Figure 3). Separate modeling simulations were performed for each of the following facilities:

- Energy Innovation Laboratory (EIL) (IF-688)
- Energy Systems Laboratory (ESL) (IF-685)
- INL Engineering Demonstration Facility (IEDF) (IF-657)
- INL Research Center Laboratory (IRC) (IF-603)
- Radiological and Environmental Systems Laboratory (RESL) (IF-683).

For Idaho Falls REC facilities, DFs were only calculated at grid-receptor locations and not at discrete receptor locations. This is because discrete receptor locations change often as housing and business areas are developed or redeveloped. Grid receptor locations were based on a uniform 40-m grid spacing which results in a 61×51 grid, or 3,111 potential grid-receptor locations (see Figure 3).

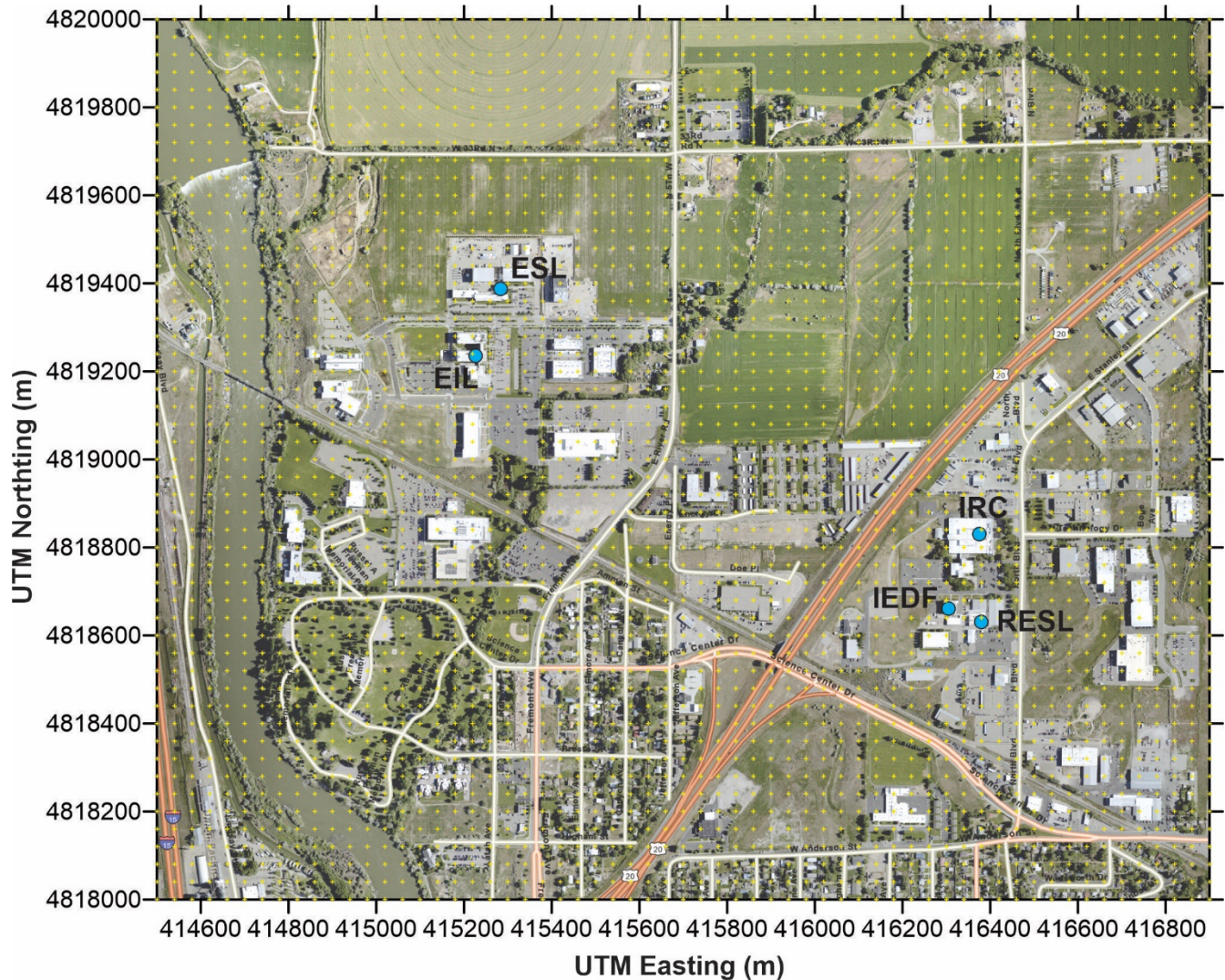


Figure 3. Idaho Falls REC model domain showing facility source locations (blue circles) and grid receptor locations (yellow crosses).

Potential emissions from REC facilities were assumed to occur from an existing stack at each facility (see Figure 4). Table 2 contains the model parameters for each stack. Stack heights and diameters are approximate values, and exit velocities and temperatures were assigned conservative values to limit buoyant or momentum plume rise.



Figure 4. Modeled stack locations at EIL and ESL (left) and IEDF, IRC and RESL (right). Each view is looking north.

Table 2. AERMOD parameters for Idaho Falls REC facility stacks.

Facility	UTM Easting (m)	UTM Northing (m)	Height above ground surface (m)	Diameter (m)	Exit Velocity (m/s)	Exit Temperature (C)
EIL	415253	4819287	21.6	1	1	20
ESL	415279	4819384	15.9	1.1	1	20
IEDF	416319	4818674	12.2	0.61	1	20
IRC	416378	4818850	14.9	0.46	1	20
RESL	416384	4818634	9.1	0.31	1	20

Because the stacks are less than heights defined by good engineering practice, building wake-effects were included in the model simulations. Wake-effect parameters for modeled stacks were determined using the EPA Building Profile Input Program with Plume Rise Enhancement (BPIP-PRIME). All structures within 400 m of each stack were included. According to the BPIP user guide (EPA 2004); structures produce an area of wake effect that extends to a distance of $5L$ where L is the lesser of the building height or projected building width. For this analysis, all structures within $5L$ were included. Building heights were determined from elevation differences in Google Earth (www.google.com/earth/). For multitiered structures, the tiers were included, or the entire building height was assumed to be equal to the height of the tallest tier. This was very conservative for some buildings. Figure 5 shows a 3D wireframe image of the buildings and stacks sources from the BEEST software.

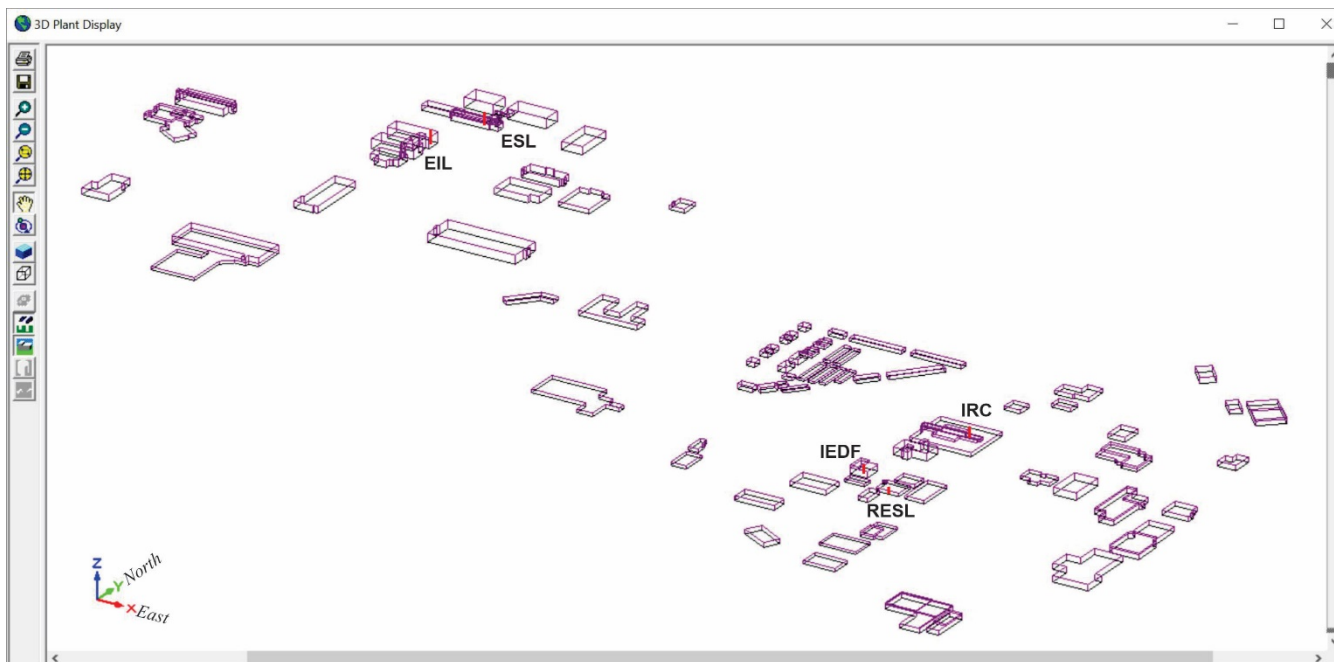


Figure 5. Wireframe image of buildings around REC facilities for calculating wake effects. Buildings with stacks are labeled, and stacks are shown as red vertical lines. Image produced with BEEST for Windows software (BEE-Line Software, Version 9.95).

Idaho Falls REC Facilities Dispersion Factors

Grid DFs were calculated for each facility and averaging period at each of the 3,111 grid nodes shown in Figure 3. Appendix D contains contour plots of grid DFs for each facility and averaging period. The grid DFs in the contour plots were multiplied by $1 \times 10^6 \mu\text{g/g}$ before contouring, so values inferred or extrapolated from the contour plots should only be multiplied by the emission rate in g/s to obtain the maximum ambient air concentration. A table of maximum DFs by averaging time for each INL Site facility is provided in Appendix E. To estimate maximum ambient air impacts for a given pollutant (in $\mu\text{g/m}^3$), the appropriate DF from Appendix E (s/m^3) should be multiplied by the actual source emission rate of that pollutant (in g/s) and by $1 \times 10^6 \mu\text{g/g}$.

LIMITATIONS ON THE USE OF AERMOD DISPERSION FACTORS

Screening-level DFs in this ECAR provide a quick and simple means to evaluate a given source and determine whether a release would have a significant impact and require a more-detailed analysis. However, concentrations calculated using the DFs only estimate the maximum concentration increase (or increment) from a particular source and do not account for existing ambient concentrations in the area (e.g., regional background or other INL sources). Therefore, they are not appropriate for final evaluation of pollutants with ambient air quality criteria that includes contributions from other sources (e.g., National Ambient Air Quality Standards).

INL Site DFs do not account for specific stack locations and parameters (height, diameter, exit velocity, or exit temperature), or local building wake effects; thus, they should not be used for any formal state of Idaho or EPA air-quality modeling analysis in lieu of actual refined modeling runs for those sources. But because INL Site sources were assumed to be at ground level, the DFs should provide a conservative estimate of maximum impacts from elevated releases from INL Site sources. However, use of these DFs to evaluate release from tall stacks at the INL Site may result in substantial overprediction of impacts, depending on the downwind distance being evaluated.

REFERENCES

- 40 CFR 51, Appendix W, "Guideline on Air Quality Models," Code of Federal Regulations, Office of the Federal Register, January 2017.
- 40 CFR 61, Subpart H, 2010, "National Emission Standards for Emissions of Radionuclides Other than Radon from Department of Energy Facilities," Code of Federal Regulations, Office of the Federal Register, April 2010.
- DEQ, 2013, State of Idaho Guideline for Performing Air Quality Impact Analysis, ID AQ-011, (September 2013), State of Idaho Department of Environmental Quality, Boise, Idaho.
- EPA, 2004, *User's Guide to the Building Profile Input Program, Revised April 21, 2004*, EPA-454/R-93-038, U.S. EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina.
- EPA, 2019a, *User's Guide for the AMS/EPA Regulatory Model –AERMOD*, EPA-454/B-19-027, U.S. EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, August 2019.
- EPA, 2019b, *User's Guide for the AERMOD Meteorological Preprocessor (AERMET)*, EPA-454/B-19-028, U.S. EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, August 2019.
- IDAPA, 2020, "Department of Environmental Quality, Rules for the Control of Air Pollution in Idaho," IDAPA 58.01.01, Idaho Administrative Code.

Appendix A

Meteorological Data Processing for INL Site AERMOD Modeling

(Provided by Idaho Department of Environmental Quality)

Meteorological Data Processing Summary for INL/Grid3 Mesonet site for the period 2013–2017

An updated meteorological data set from the latest 5-year period (2013–2017) from the GRID3 Mesonet monitor site (WMO ID 463502), located within the INL facility west of Idaho Falls, Idaho, that can be utilized by the AERMOD modeling system has been created and is now available for use for air-quality modeling in the locale of INL. The site is located at LatLong 43.589N and 112.94W.

Onsite meteorological data were downloaded from the Mesowest website (<http://www.mesowest.utah.edu>) for the period 2013–2017. These data were supplemented with National Weather Service (NWS) surface data from KIDAI, Station ID 725785-24145, downloaded from the NCDC website <http://www.ncdc.noaa.gov> in standard ISHD format for the same period, 2013–2017. The upper-air soundings required by AERMET were also taken from the Boise, Idaho, Airport station (ID 24131), and were downloaded from the [ESRL.noaa.gov](http://www.esrl.noaa.gov) radiosonde data site in standard FSL format.

Land-use data were collected in 1992 NLCD format from the MRLC Consortium data-retrieval site <http://www.mrlc.gov/viewerjs/>. (AERSURFACE currently only supports data in 1992 format.)

The latest versions of the modeling programs were used. They were:

- AERMET Version 18081
- AERMINUTE Version 15271
- AERSURFACE Version 13016.

Moisture content was assessed for the last thirty years of data at Idaho Falls airport. The year 2013 was assessed as average moisture content, defined as within a 30 percentile of the 30-year mean of 15.5 inches. Two years, 2014 and 2015, were assessed as wet years. The years 2016 and 2017 were assessed as dry years. Therefore, AERSURFACE was run for average conditions for year 2013; AERSURFACE was run for “wet” conditions for the years 2014 and 2015 and for “dry” conditions for 2016 and 2017. Continuous snowcover for extended periods was evident from examination of local climatological records for the years 2013–2017 and, therefore, was assessed in the processing.

AERMOD Screening Dispersion Factors for INL Facilities

Idaho Falls Annual Precipitation/Moisture				
(inches)				
		Year	Total	Rating
30 Year Mean	15.54	2013	13.45	A
Mean- 30 percentile	12.19	2014	21.06	W
Mean+ 30 percentile	18.91	2015	19.77	W
		2016	11.54	D
		2017	11.33	D

Comparative AERMOD runs were made using previously processed INL GRID3 AERMET data from 2000–2004 and this AERMET data set to confirm consistency in results. Results were similar. Sets were created without and with the “USTAR” option; the data incorporating the ustar* option are denoted as version “D.”

The average wind speed of the data for the period from 2013–2017 is 4.3 m/s, and the percent calm distribution is 2%. Missing data accounts for less than 1% of the data period.

Figures 1 and 2 are wind rose and data frequency distribution graphs.

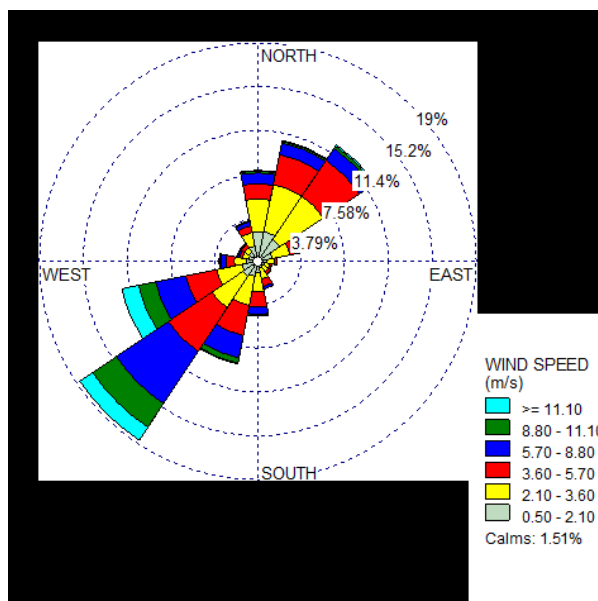


Figure 1. Wind Rose at the INL Site GRID-3 Station.

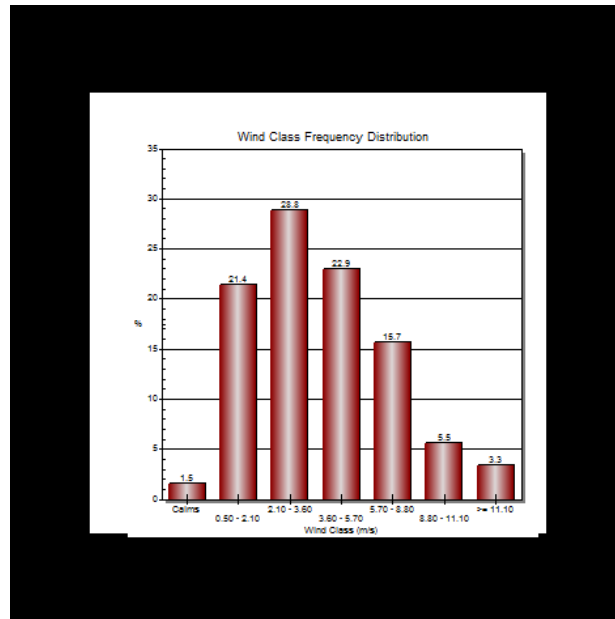


Figure 2. Data frequency distribution graph for the INL Site at the GRID 3 Station.

Appendix B

Meteorological Data Processing for Idaho Falls AERMOD Modeling

(Provided by Idaho Department of Environmental Quality)

Meteorological Data Processing Summary for Idaho Falls Airport (KIDA) for the Period 2015-2019

An updated meteorological dataset from the latest five-year period (2015–2019) from Idaho Falls, Idaho, that can be utilized by the AERMOD modeling system has been created and is now available for use for air-quality modeling in the Idaho Falls locale.

National Weather Service (NWS) surface data from the Idaho Falls airport (KIDA; Station ID 725785-24145) were downloaded from the NOAA National Centers for Environmental Information (NCEI) website (<ftp://ftp.ncei.noaa.gov/pub/data/noaa/>) (formerly National Climatic Data Center [NCDC]) in standard ISHD format for the years 2015–2019. One-minute Automated Surface Observing Stations (ASOS) data in 6405 format were also collected for KIDA from the NOAA NCDC website in monthly files for the same 5-year period (<ftp://ftp.ncdc.noaa.gov/pub/data/asos-onemin/>). The upper air soundings required by AERMET were taken from the Boise, Idaho, airport station (KBOI; Station ID 24131) and were downloaded from the NOAA Earth System Research Laboratories (ESRL) Radiosonde Database (<https://ruc.noaa.gov/raobs/>) in standard FSL format.

Land cover, impervious, and tree-canopy data were collected in 2016 National Land Cover Database (NLCD) format from the Multi-Resolution Land Characteristics (MRLC) Consortium data retrieval site (<https://www.mrlc.gov/viewer/>).

The latest versions of the modeling programs were used. They were:

- AERMET Version 19191
- AERMINUTE Version 15272
- AERSURFACE Version 20060

Moisture content was assessed for the last thirty years (1989–2019) of data at Idaho Falls airport. Two of the 5 years, 2015 and 2018, were assessed as having average moisture content, defined as total annual precipitation that is within the 30th and 70th percentiles of the 30-year precipitation data (see Table 1 for statistics and Table 2 for moisture-content assessment). Annual precipitation data were obtained from the NOAA NCDC website (<https://www.ncdc.noaa.gov/cdo-web/>). The years 2016, 2017, and 2019 were assessed as wet years, defined as total annual precipitation larger than the 70th percentile of the 30-year precipitation data. Continuous snow cover for extended periods was evident from examination of local climatological records for the years 2015–2019 and thereafter was assessed in the processing.

Table 1. 30-Year Statistics for Total Annual Precipitation Data at Idaho Falls from 1989-2019.

Statistical Parameter	Precipitation (inches)
Minimum	5.49
30 th percentile	7.97
Mean	9.62
Median (50 th percentile)	10.09
70 th percentile	11.18
Maximum	15.30

Table 2. Five-Year Moisture Content Assessment for Idaho Falls from 2015-2019.

Year	Total Annual Precipitation (inches)	Moisture Content Assessment
2015	10.43	Average
2016	11.53	Wet
2017	11.33	Wet
2018	10.46	Average
2019	11.59	Wet

Meteorological datasets were created with and without the “adjust u star” (ADJ_U*) option. The ADJ_U* option enhances model performance during low wind speeds under stable conditions. The data incorporating the ADJ_U* option are denoted as version “D” (i.e., KIDA2015-2019D). The data without the ADJ_U* option are denoted as version “B” (i.e., KIDA2015-2019B). Either set is acceptable for use by DEQ. The percent calm distribution for the period from 2015–2019 is less than 1%. Missing data account for less than 1% of the data period.

Figures 1 and 2 illustrate wind rose and wind speed histogram plots, respectively.

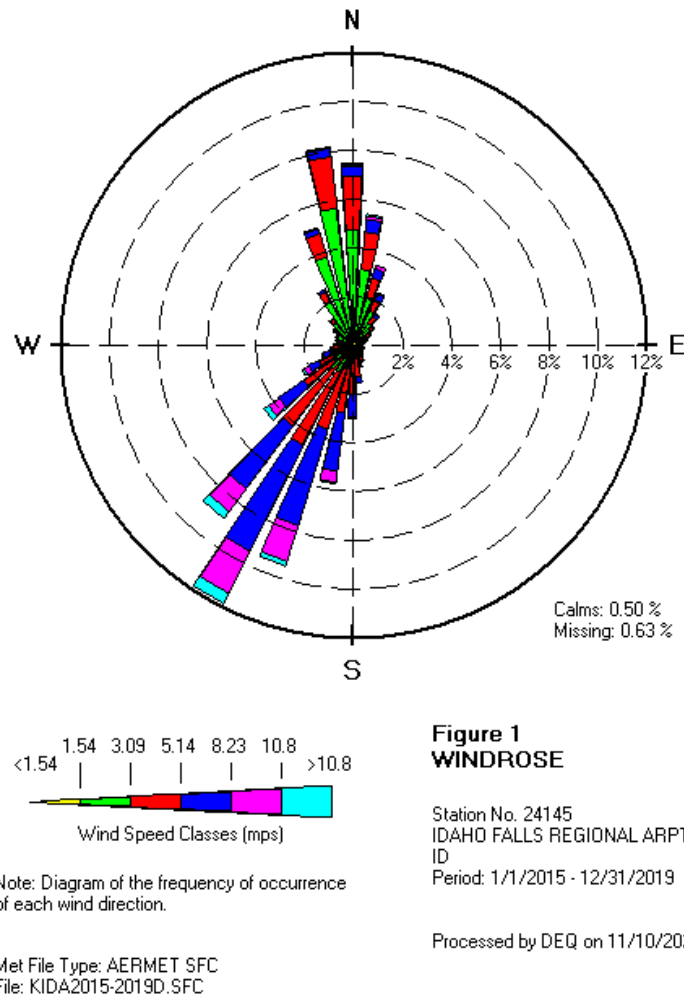


Figure 1. Wind rose at the Idaho Falls Airport in Idaho from 2015-2019.

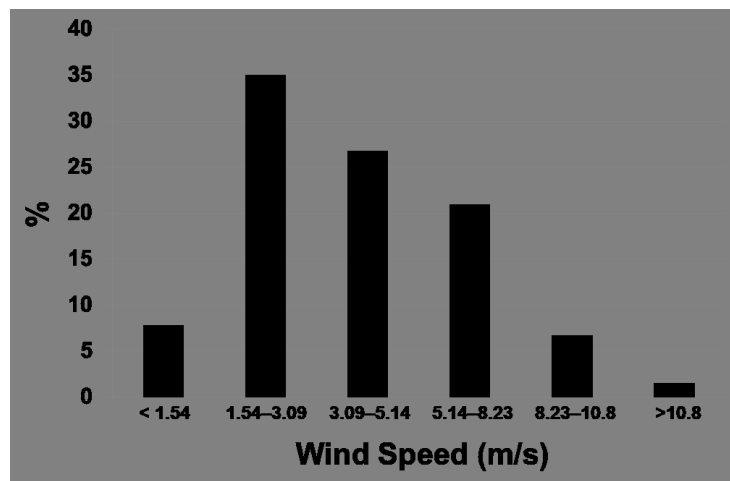


Figure 2. Wind Speed Histogram at the Idaho Falls Airport in Idaho from 2015-2019.

Appendix C

Plots of Grid Dispersion Factors for the INL Site (ATR Complex, CFA, CITRC, INTEC, MFC, NRF, RWMC, SMC)

NOTE: *Grid DFs (s/m³) were multiplied by 1×10^6 µg/g before contouring. Values inferred or extrapolated from the contour plots should only be multiplied by the emission rate in g/s to obtain the maximum ambient air concentration in µg/m³ (see Equation 2 in ECAR).*

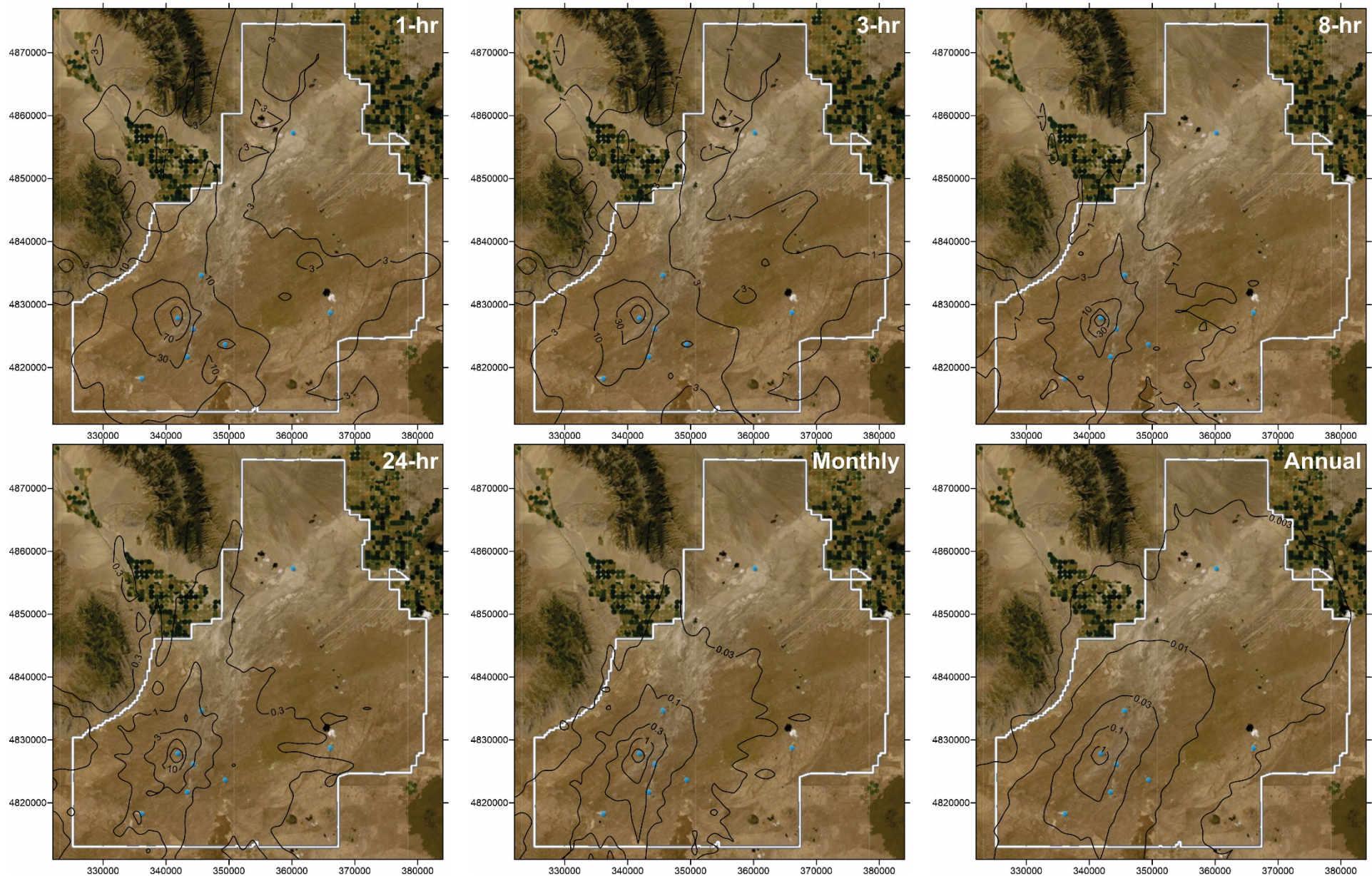


Figure 1. Time-averaged dispersion factors for ATR Complex.

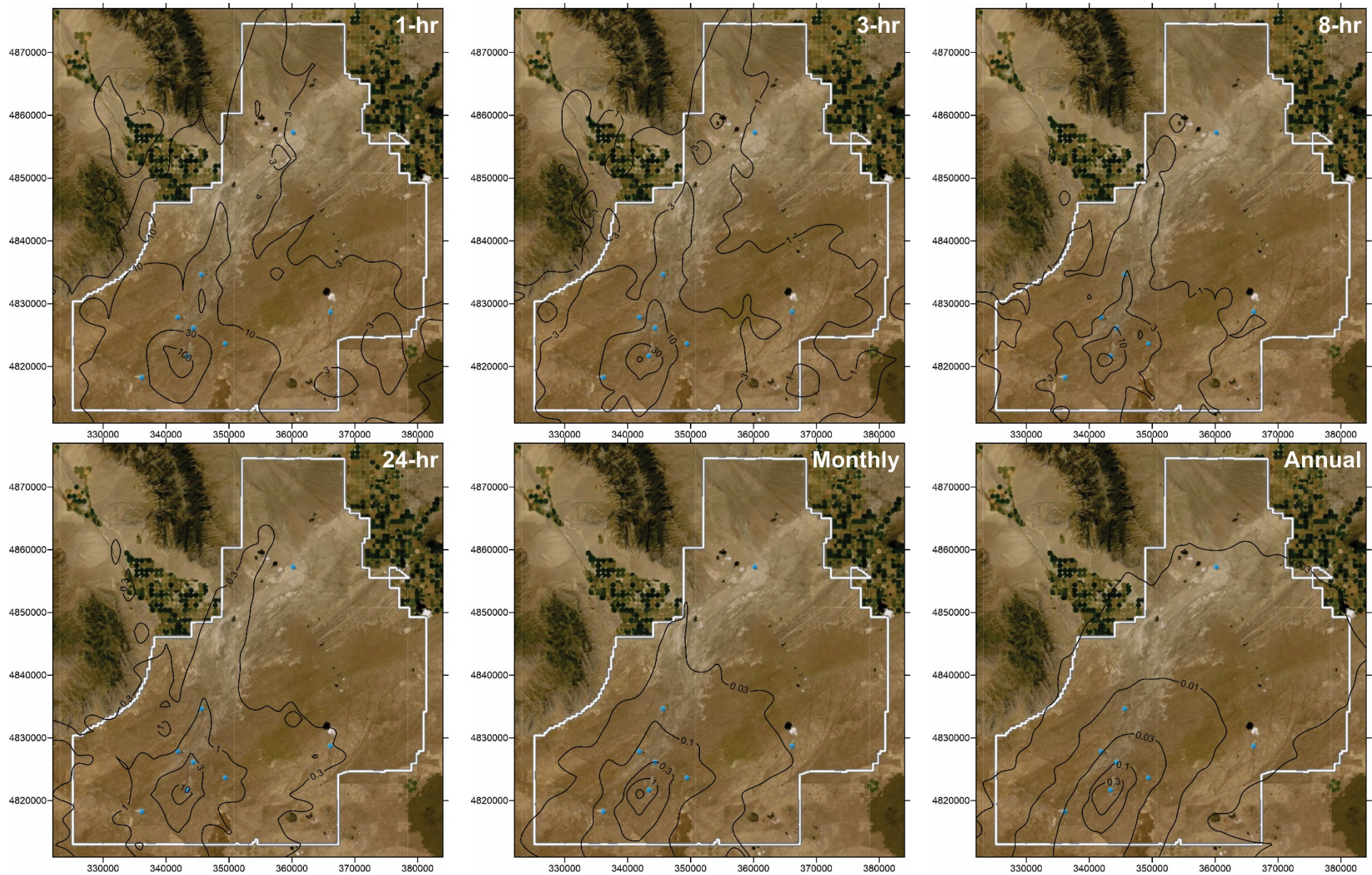


Figure 2. Time-averaged dispersion factors for CFA.

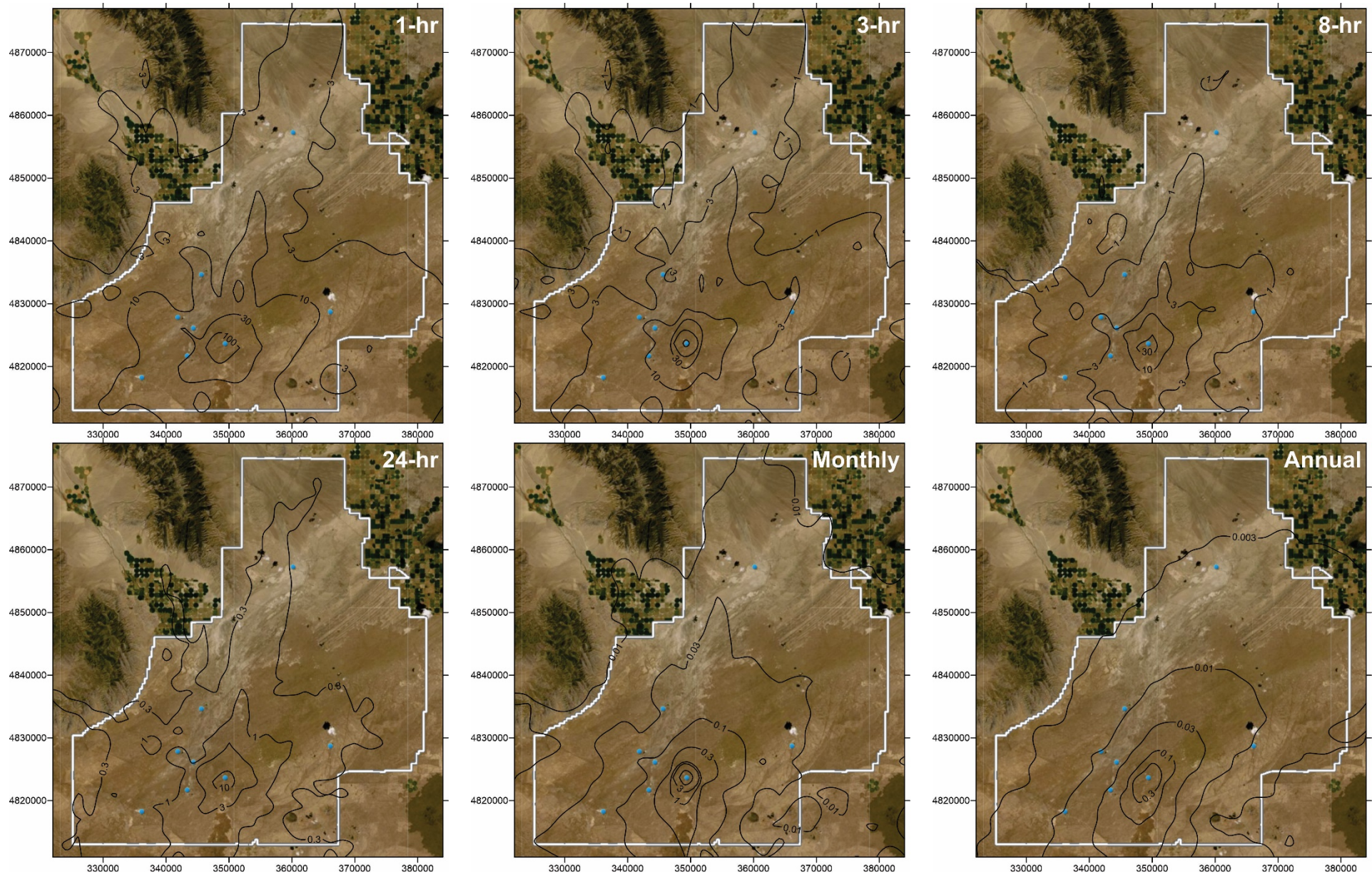


Figure 3. Time-averaged dispersion factors for CITRC.

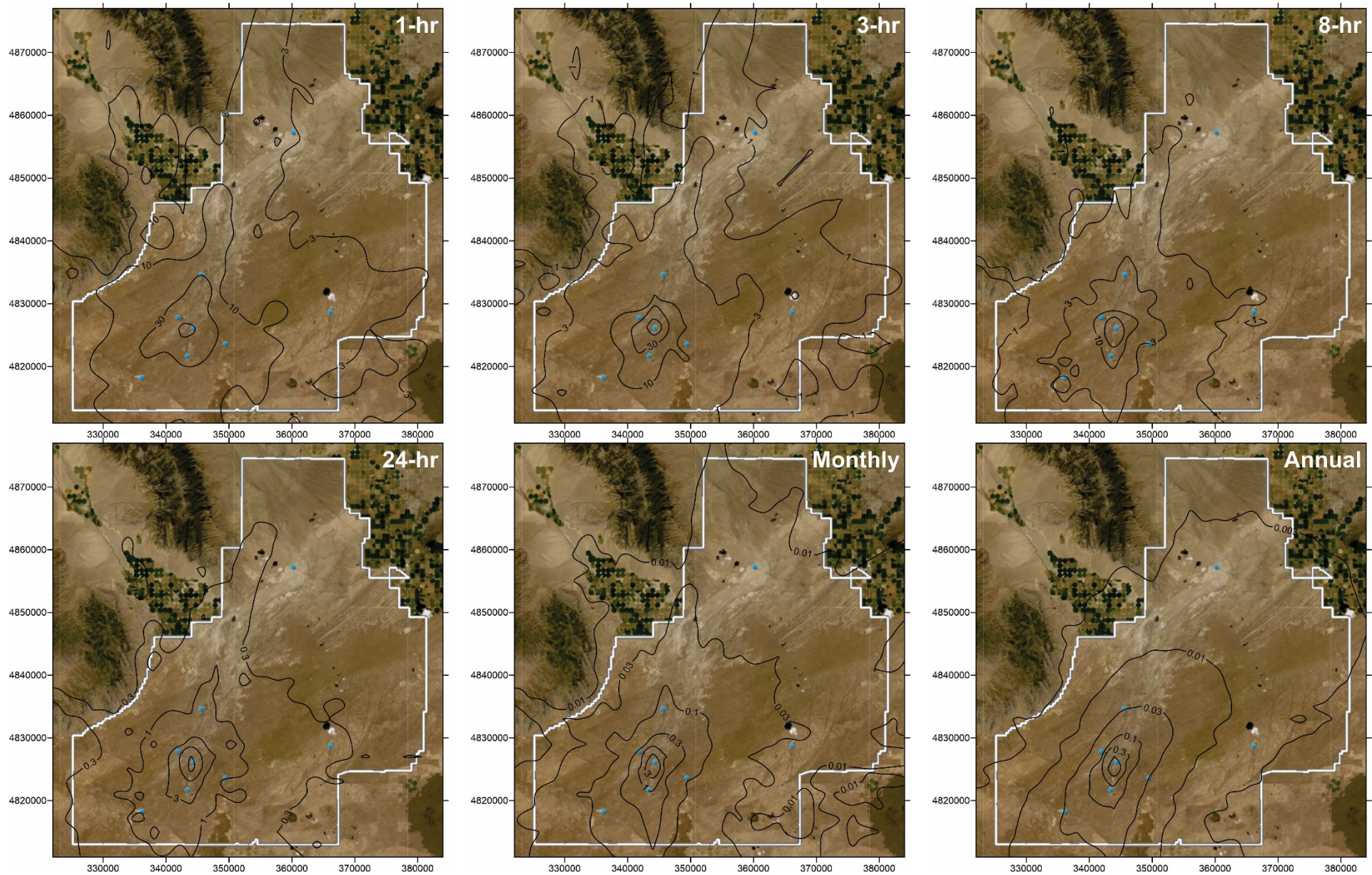


Figure 4. Time-averaged dispersion factors for INTEC.

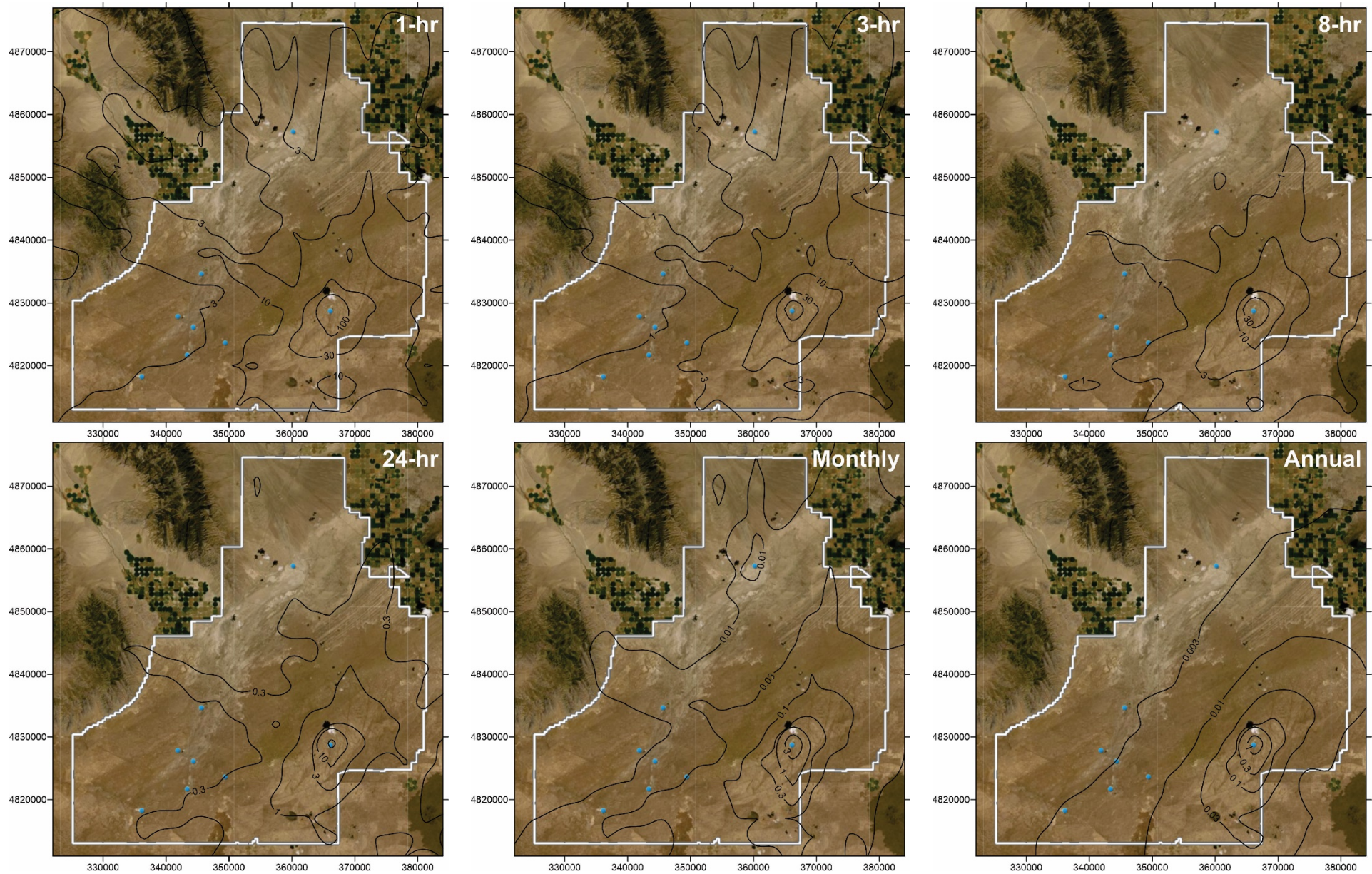


Figure 5. Time-averaged dispersion factors for MFC.

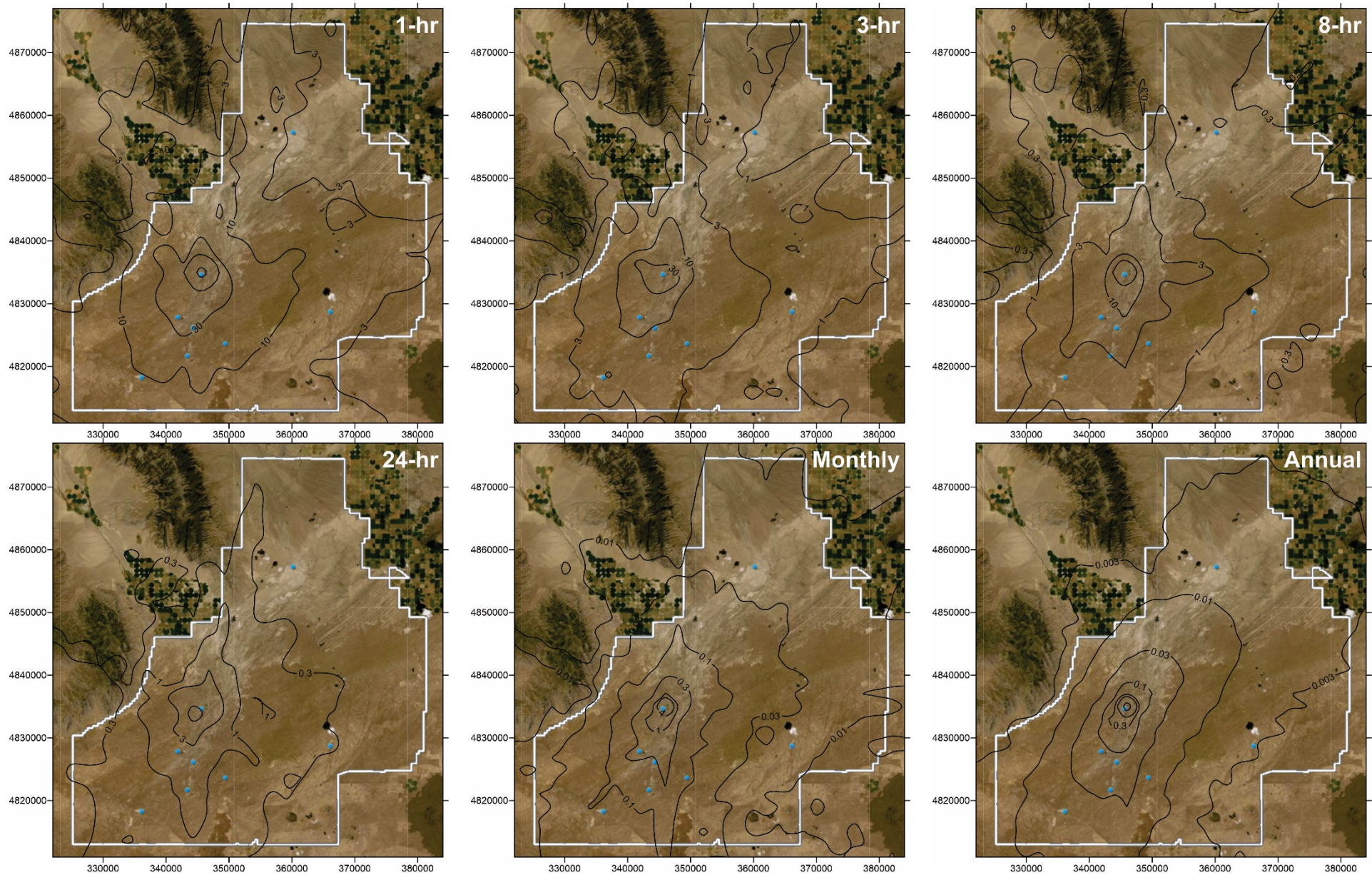


Figure 6. Time-averaged dispersion factors for NRF.

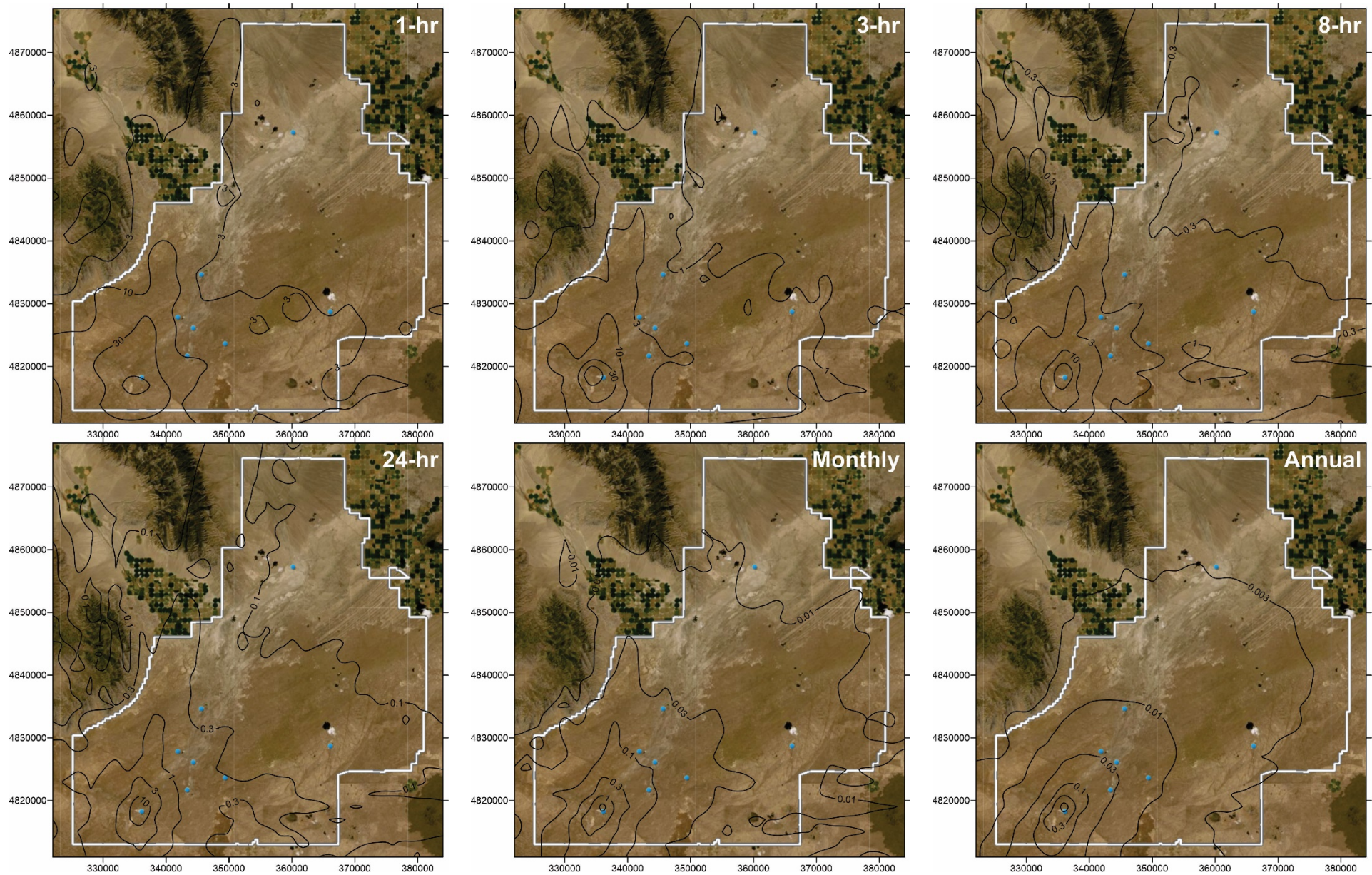


Figure 7. Time-averaged dispersion factors for RWMC.

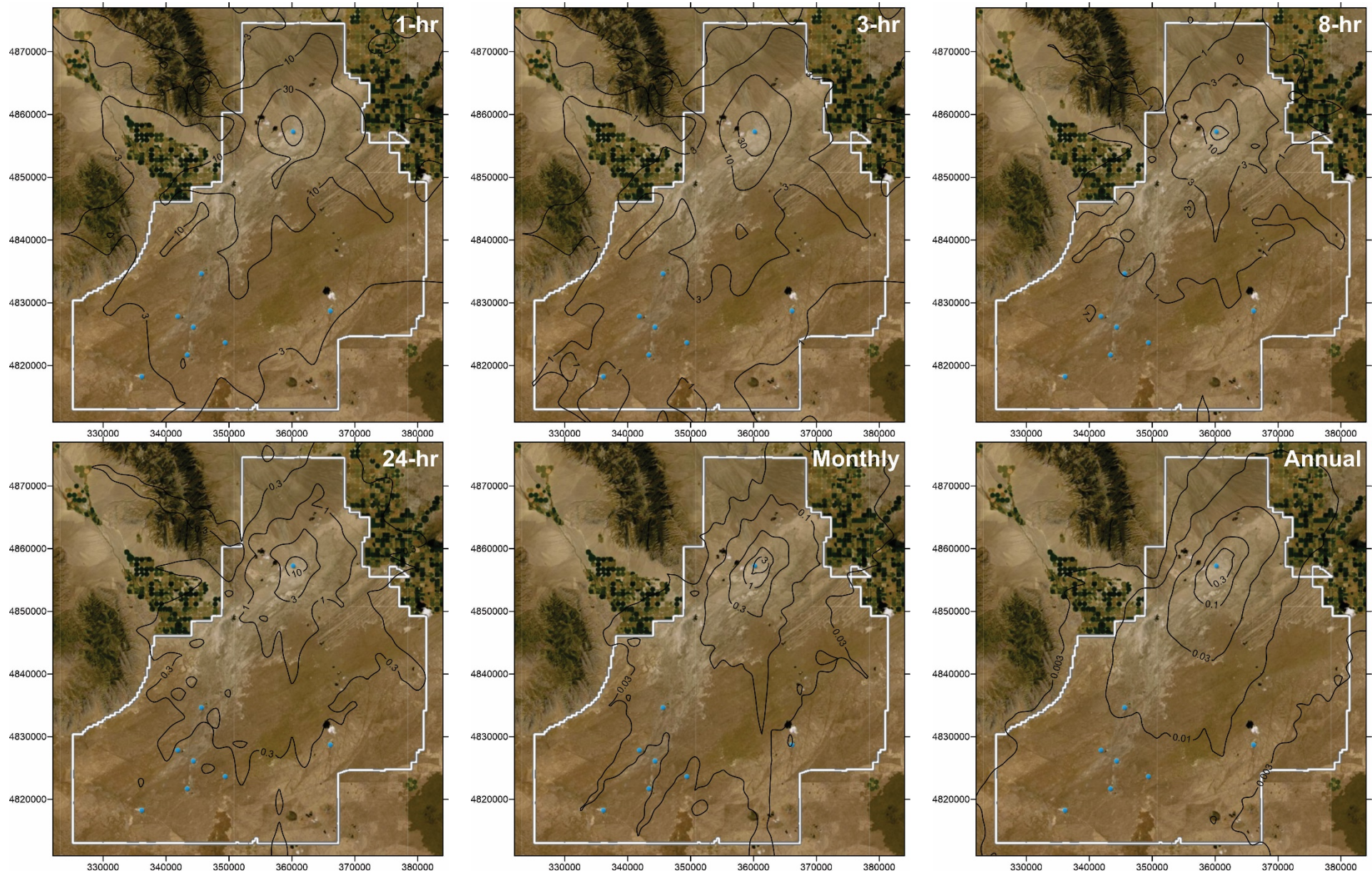


Figure 8. Time-averaged dispersion factors for SMC.

Appendix D

Plots of Grid Dispersion Factors for Idaho Falls REC Facilities (EIL, ESL, IEDF, IRC, RESL)

NOTE: *Grid DFs (s/m³) were multiplied by 1×10^6 $\mu\text{g/g}$ before contouring. Values inferred or extrapolated from the contour plots should only be multiplied by the emission rate in g/s to obtain the maximum ambient air concentration in $\mu\text{g/m}^3$ (see Equation 2 in ECAR).*

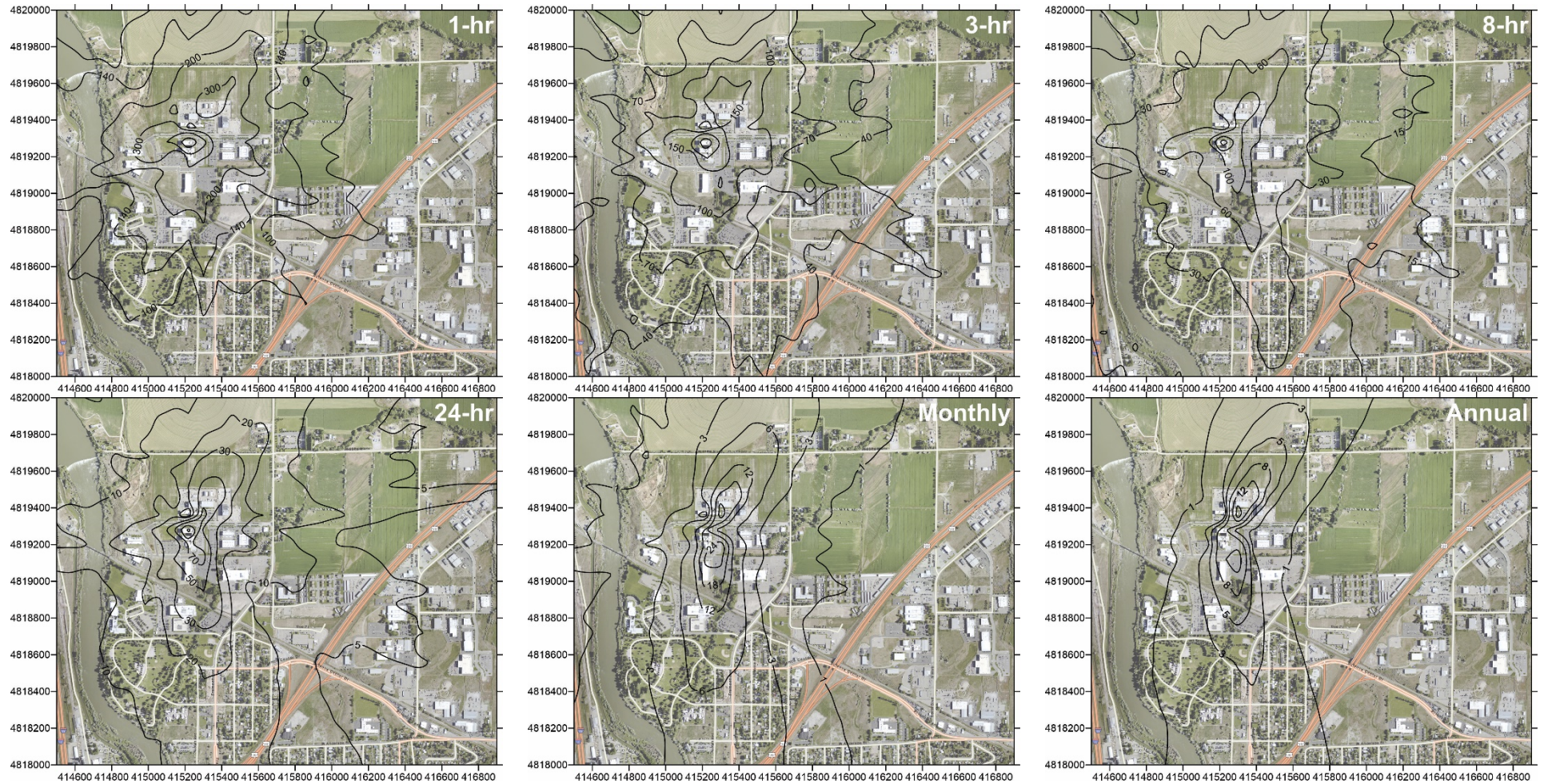


Figure 1. Time-averaged dispersion factors for EIL (IF-688).

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

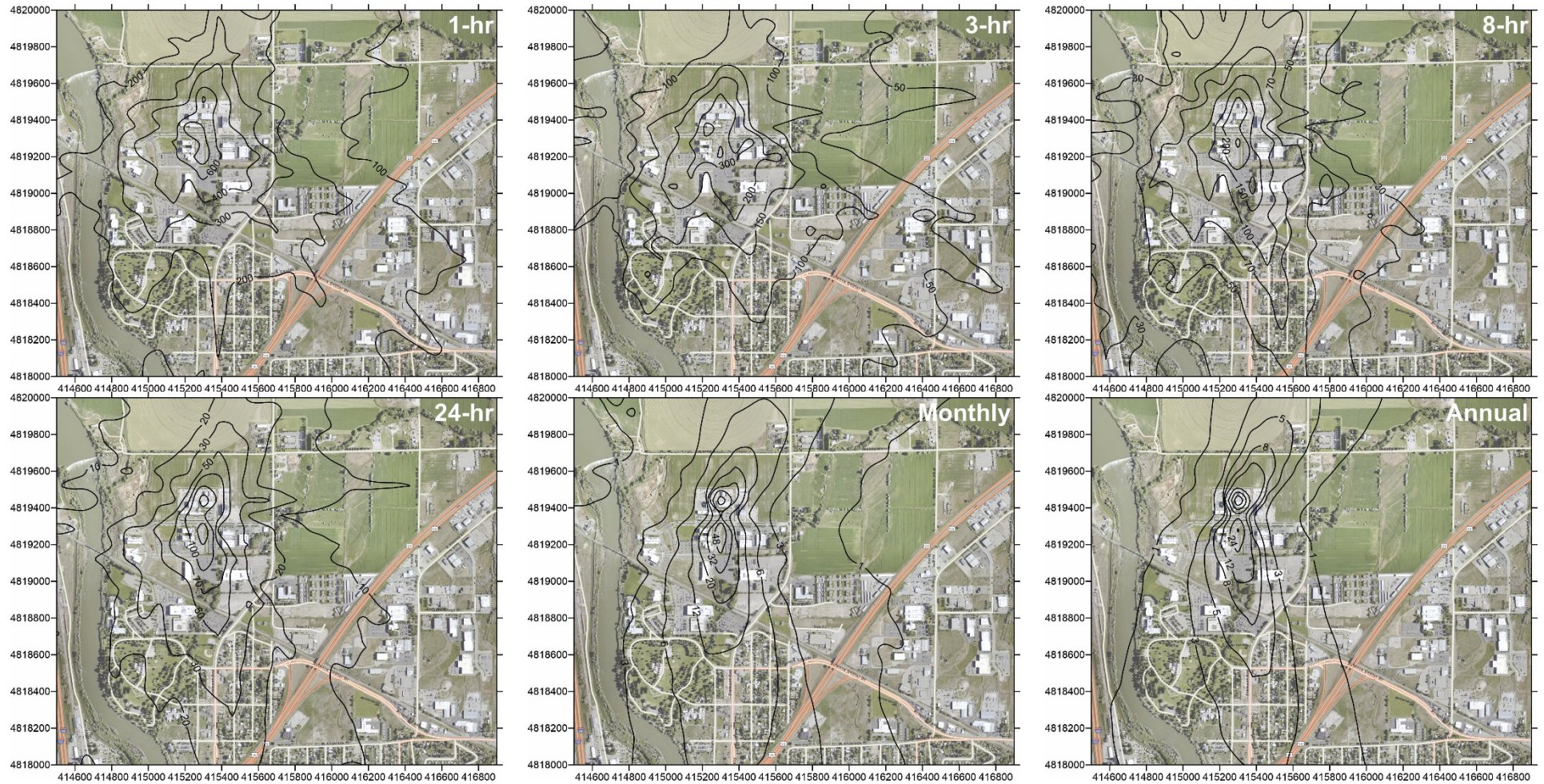


Figure 2. Time-averaged dispersion factors for ESL (IF-685).

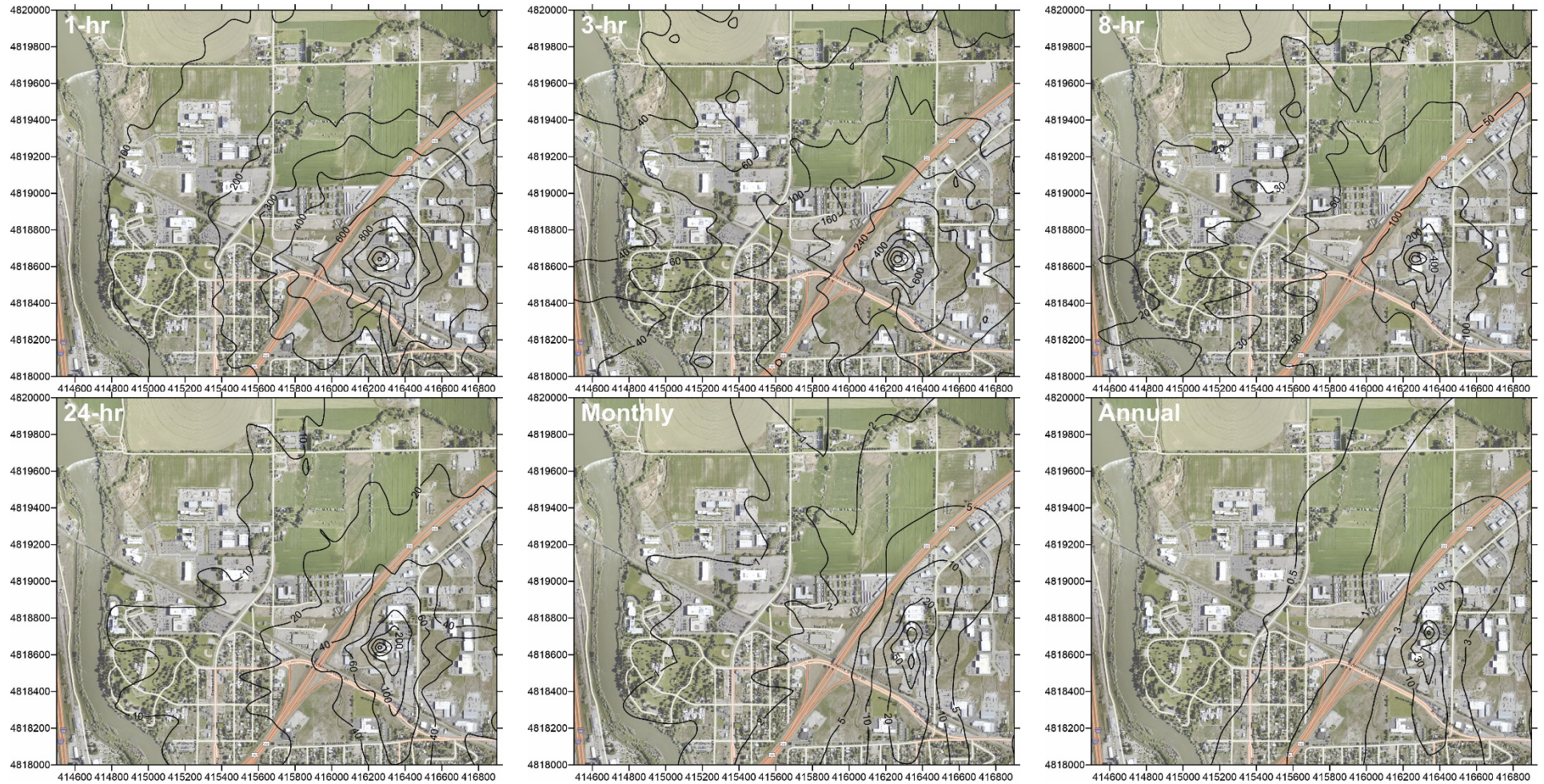


Figure 3. Time-averaged dispersion factors for IEDF (IF-657).

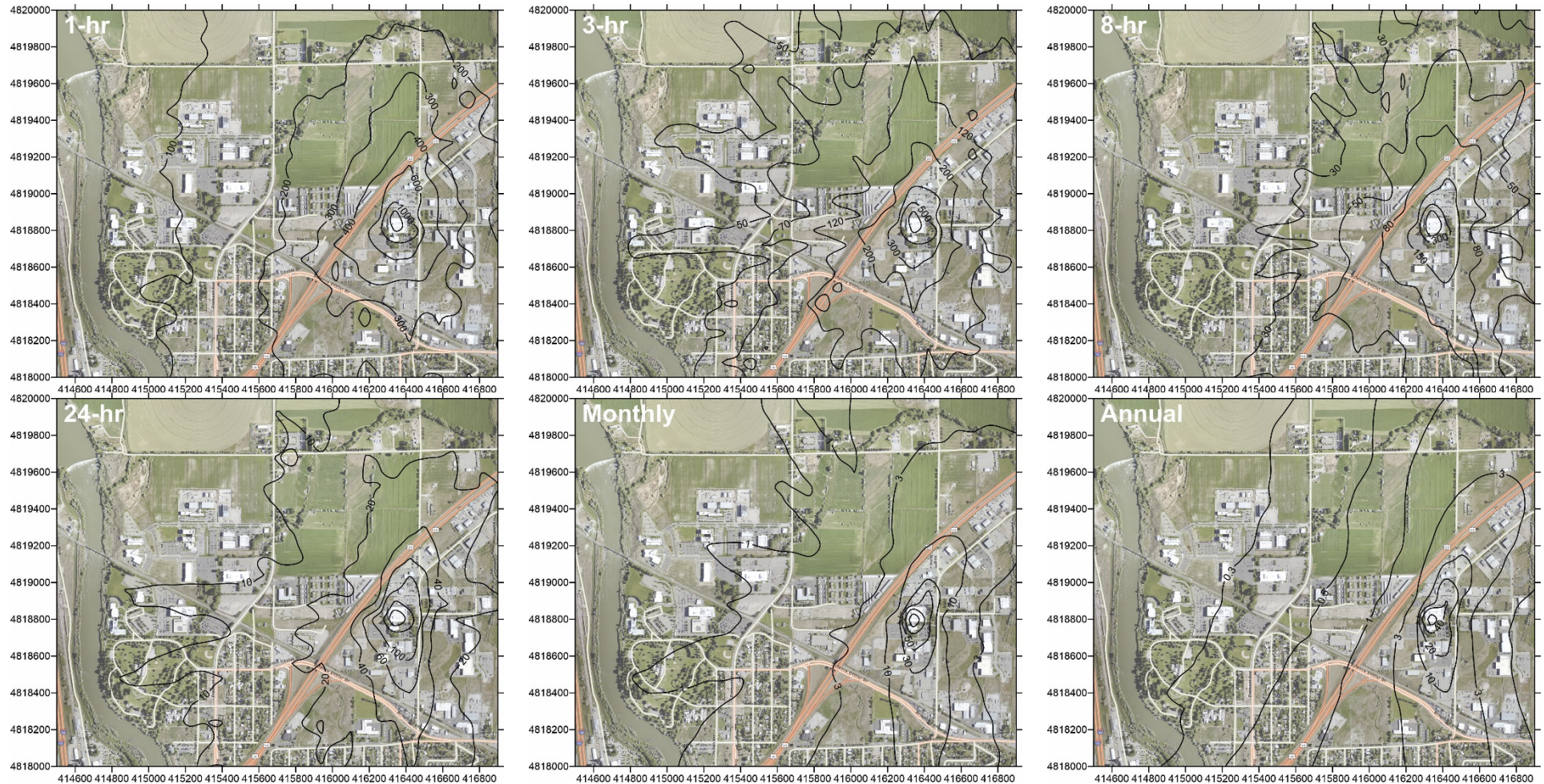


Figure 4. Time-averaged dispersion factors for IRC (IF-603, Laboratory).

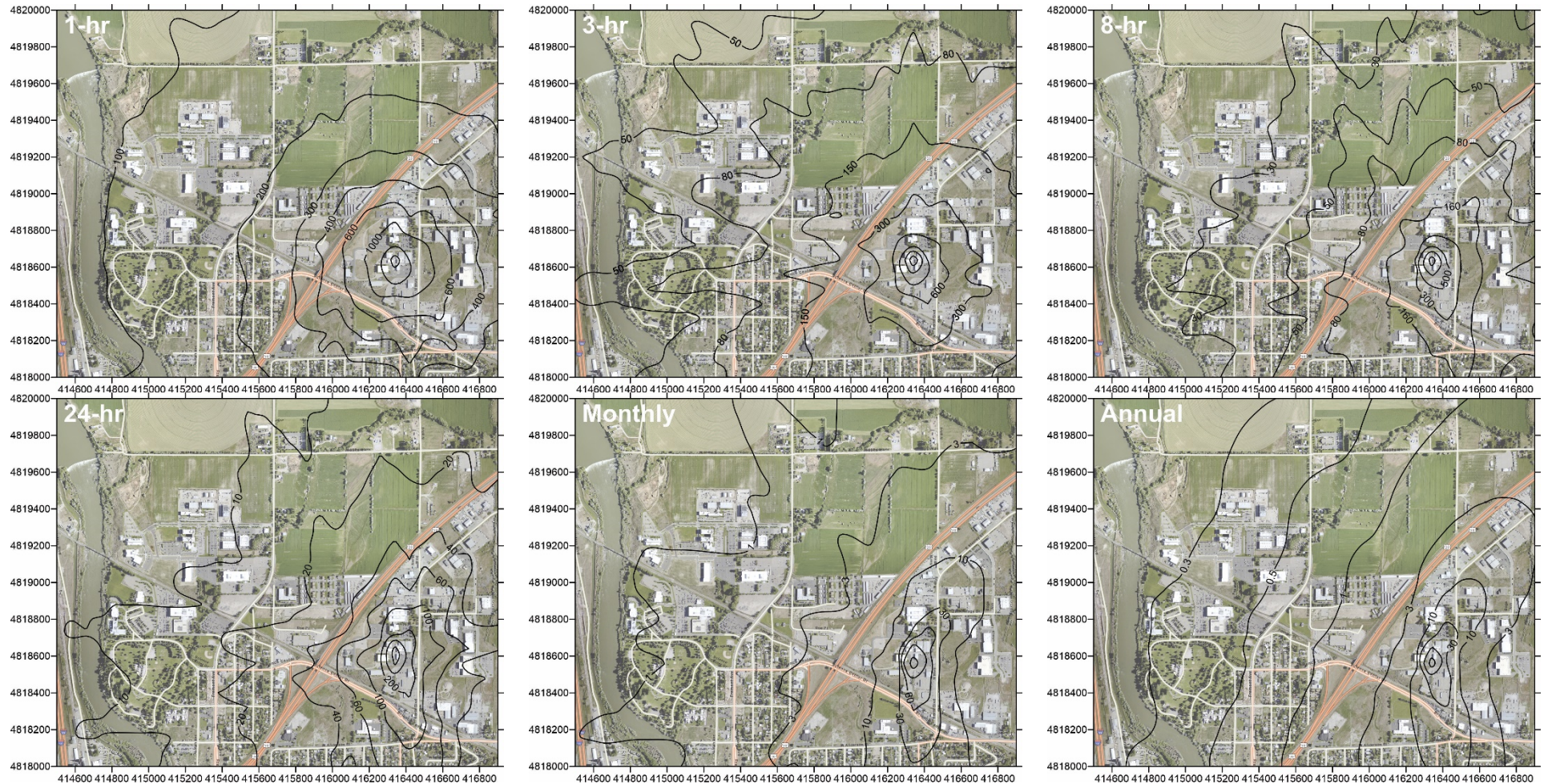


Figure 5. Time-averaged dispersion factors for RESL (IF-683).

Appendix E

Grid Dispersion Factors for Idaho Falls REC Facilities (EIL, ESL, IEDF, IRC, RESL)

NOTE: *Universal Transverse Mercator (UTM) coordinates in the table below are for Zone 12.*

ENGINEERING CALCULATIONS AND ANALYSIS AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting	Northing	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
1	414500	4818000	6.36E-05	3.19E-05	1.49E-05	6.97E-06	1.17E-06	1.17E-06	5.58E-07	1.15E-04	7.21E-05	2.71E-05	2.28E-05	1.75E-05	6.38E-07	7.50E-05	3.62E-05	1.36E-05	5.53E-06	5.73E-07	2.46E-07	6.76E-05	3.48E-05	1.31E-05	5.42E-06	5.01E-07	2.23E-07	7.97E-05	3.76E-05	1.53E-05	6.24E-06	7.25E-07	2.56E-07				
2	414540	4818000	6.29E-05	4.07E-05	1.53E-05	7.65E-06	1.25E-06	5.89E-07	1.13E-04	7.22E-05	2.72E-05	1.31E-05	1.79E-05	8.75E-07	7.59E-05	3.70E-05	1.39E-05	5.58E-06	5.90E-07	2.54E-07	7.05E-05	3.54E-05	1.33E-05	5.67E-06	5.25E-07	2.30E-07	8.26E-05	3.91E-05	1.51E-05	6.04E-06	7.20E-07	2.65E-07					
3	414500	4818000	6.35E-05	3.92E-05	1.49E-05	7.39E-06	1.46E-06	6.19E-07	1.25E-04	6.16E-05	2.40E-05	1.21E-05	2.05E-06	9.16E-07	7.82E-05	3.75E-05	1.41E-05	5.84E-06	6.07E-07	2.63E-07	7.28E-05	3.61E-05	1.35E-05	5.91E-06	5.57E-07	2.38E-07	8.50E-05	4.06E-05	1.57E-05	5.85E-06	7.15E-07	2.74E-07					
4	414540	4818000	6.68E-05	2.58E-05	1.46E-05	6.36E-06	1.65E-06	6.52E-07	1.24E-04	6.44E-05	2.24E-05	9.92E-06	2.29E-06	9.63E-07	8.17E-05	3.96E-05	1.49E-05	6.14E-06	6.25E-07	2.74E-07	7.44E-05	3.65E-05	1.37E-05	6.15E-06	5.92E-07	2.47E-07	8.73E-05	4.21E-05	1.62E-05	6.08E-06	7.12E-07	2.85E-07					
5	414540	4818000	6.36E-05	2.80E-05	1.39E-05	6.84E-06	1.70E-06	6.82E-07	1.27E-04	6.07E-05	2.55E-05	9.81E-06	2.47E-06	1.01E-06	8.44E-05	4.15E-05	1.55E-05	6.45E-06	6.40E-07	2.83E-07	7.42E-05	3.62E-05	1.43E-05	6.35E-06	6.24E-07	2.55E-07	8.87E-05	4.33E-05	1.66E-05	6.33E-06	7.08E-07	2.94E-07					
6	414620	4818000	7.02E-05	3.55E-05	1.53E-05	7.14E-06	1.91E-06	7.09E-07	1.38E-04	7.41E-05	3.08E-05	1.03E-05	2.83E-06	1.06E-06	8.63E-05	4.31E-05	1.62E-05	6.77E-06	6.53E-07	2.92E-07	7.26E-05	3.55E-05	1.50E-05	6.50E-06	6.54E-07	2.63E-07	8.93E-05	4.42E-05	1.66E-05	6.60E-06	7.26E-07	3.06E-07					
7	414660	4818000	7.22E-05	3.99E-05	1.73E-05	7.30E-06	2.04E-06	7.52E-07	1.31E-04	7.63E-05	3.22E-05	1.07E-05	2.76E-06	1.12E-06	8.77E-05	4.48E-05	1.68E-05	7.14E-06	6.68E-07	3.02E-07	7.42E-05	3.44E-05	1.57E-05	6.63E-06	6.83E-07	2.72E-07	9.21E-05	4.50E-05	1.77E-05	6.91E-06	7.49E-07	3.17E-07					
8	414700	4818000	6.66E-05	3.28E-05	1.62E-05	7.21E-06	2.14E-06	8.11E-07	1.37E-04	6.56E-05	3.16E-05	1.11E-05	2.85E-06	1.20E-06	8.79E-05	4.76E-05	1.74E-05	7.53E-06	6.82E-07	3.13E-07	7.70E-05	3.28E-05	1.63E-05	6.72E-06	7.10E-07	2.82E-07	9.56E-05	4.71E-05	1.71E-05	7.26E-06	7.72E-07	3.30E-07					
9	414740	4818000	6.57E-05	3.48E-05	1.84E-05	6.84E-06	2.19E-06	8.72E-07	1.27E-04	6.83E-05	3.27E-05	1.17E-05	3.01E-06	1.28E-06	9.37E-05	4.74E-05	1.78E-05	7.92E-06	7.09E-07	3.24E-07	7.91E-05	3.18E-05	1.67E-05	6.72E-06	7.30E-07	2.91E-07	9.88E-05	4.96E-05	1.86E-05	7.64E-06	7.94E-07	3.42E-07					
10	414780	4818000	6.43E-05	3.19E-05	1.64E-05	7.42E-06	2.29E-06	9.44E-07	1.24E-04	6.06E-05	2.94E-05	1.25E-05	3.34E-06	1.35E-06	9.83E-05	4.81E-05	1.80E-05	8.29E-06	7.57E-07	3.35E-07	7.78E-05	3.31E-05	1.68E-05	6.67E-06	7.81E-07	3.00E-07	1.01E-04	5.20E-05	1.95E-05	8.04E-06	8.13E-07	3.54E-07					
11	414820	4818000	6.05E-05	2.88E-05	1.56E-05	8.50E-06	2.49E-06	9.98E-07	1.21E-04	5.31E-05	2.86E-05	1.27E-05	3.58E-06	1.43E-06	1.01E-04	4.85E-05	1.82E-05	8.59E-06	8.02E-07	3.44E-07	7.78E-05	3.54E-05	1.68E-05	6.83E-06	8.23E-07	3.07E-07	1.01E-04	5.40E-05	2.02E-05	8.43E-06	8.28E-07	3.65E-07					
12	414860	4818000	4.78E-05	2.66E-05	1.50E-05	9.00E-06	2.67E-06	1.05E-06	9.57E-05	5.36E-05	2.49E-05	1.37E-05	3.78E-06	1.48E-06	1.02E-04	4.81E-05	1.90E-05	8.83E-06	8.45E-07	3.53E-07	7.48E-05	3.72E-05	1.65E-05	6.31E-06	8.61E-07	3.13E-07	1.00E-04	5.54E-05	2.08E-05	8.80E-06	8.39E-07	3.75E-07					
13	414900	4818000	5.22E-05	2.65E-05	1.48E-05	8.85E-06	2.88E-06	1.12E-06	9.64E-05	5.43E-05	2.71E-05	1.39E-05	3.95E-06	1.55E-06	9.93E-05	4.70E-05	2.00E-05	8.97E-06	8.81E-07	3.51E-07	7.51E-05	3.83E-05	1.59E-05	6.02E-06	9.02E-07	3.19E-07	1.00E-04	5.62E-05	2.11E-05	9.13E-06	8.45E-07	3.83E-07					
14	414940	4818000	5.15E-05	2.63E-05	1.56E-05	8.82E-06	3.21E-06	1.21E-06	8.95E-05	4.71E-05	2.46E-05	1.37E-05	4.31E-06	1.66E-06	9.84E-05	4.57E-05	2.10E-05	9.14E-06	9.25E-07	3.75E-07	8.09E-05	3.93E-05	1.59E-05	5.77E-06	9.46E-07	3.29E-07	1.04E-04	5.73E-05	2.15E-05	9.54E-06	8.83E-07	3.97E-07					
15	414980	4818000	4.94E-05	3.13E-05	1.66E-05	9.45E-06	3.60E-06	1.32E-06	8.90E-05	5.09E-05	2.32E-05	1.30E-05	4.82E-06	1.81E-06	1.01E-04	4.29E-05	2.21E-05	9.32E-06	9.73E-07	3.93E-07	8.34E-05	4.18E-05	1.76E-05	5.85E-06	9.93E-07	3.43E-07	1.07E-04	5.68E-05	2.20E-05	1.00E-05	9.52E-07	4.17E-07					
16	415020	4818000	4.91E-05	2.65E-05	1.06E-05	4.01E-06	1.43E-06	9.72E-05	5.30E-05	2.36E-05	1.33E-05	5.39E-06	1.98E-06	1.06E-04	4.39E-05	2.33E-05	9.52E-06	1.03E-06	4.16E-07	9.17E-05	4.27E-05	1.85E-05	6.50E-06	1.16E-06	4.00E-07	1.11E-04	6.00E-05	2.29E-05	1.06E-05	1.03E-06	4.44E-07						
17	415060	4818000	5.00E-05	2.98E-05	2.01E-05	1.31E-05	4.77E-06	1.69E-06	1.00E-04	5.21E-05	2.91E-05	1.80E-05	6.34E-06	2.32E-06	1.23E-04	5.30E-05	2.61E-05	1.03E-05	1.24E-06	4.82E-07	1.07E-04	4.94E-05	2.14E-05	6.17E-06	1.21E-06	4.19E-07	1.24E-04	6.60E-05	2.68E-05	1.19E-05	1.20E-06	5.10E-07					
18	415100	4818000	4.65E-05	3.44E-05	2.36E-05	1.43E-05	5.27E-06	1.91E-06	1.06E-04	5.97E-05	3.58E-05	1.71E-05	6.89E-06	2.57E-06	1.29E-04	6.17E-05	2.76E-05	1.07E-05	1.43E-06	5.37E-07	1.12E-04	6.17E-05	2.54E-05	9.10E-06	1.34E-06	4.65E-07	1.36E-04	7.06E-05	2.97E-05	1.26E-05	1.38E-06	5.63E-07					
19	415140	4818000	4.79E-05	3.23E-05	2.20E-05	1.39E-05	5.25E-06	1.96E-06	1.04E-04	5.87E-05	3.86E-05	1.72E-05	6.92E-06	2.65E-06	1.36E-04	6.08E-05	2.82E-05	1.06E-05	1.62E-06	5.85E-07	1.23E-04	6.96E-05	2.94E-05	9.81E-06	1.46E-06	5.03E-07	1.46E-04	7.40E-05	3.19E-05	1.31E-05	1.55E-06	6.09E-07					
20	415180	4818000	4.94E-05	3.23E-05	2.29E-05	1.36E-05	5.31E-06	2.08E-06	1.08E-04	5.63E-05	3.39E-05	1.83E-05	7.04E-06	2.81E-06	1.47E-04	7.02E-05	3.02E-05	1.02E-05	1.71E-06	6.14E-07	1.24E-04	7.02E-05	3.17E-05	1.06E-06	1.48E-06	5.21E-07	1.48E-04	7.38E-05	3.29E-05	1.31E-05	1.71E-06	6.44E-07					
21	415220	4818000	5.15E-05	3.34E-05	2.29E-05	1.41E-05	5.02E-06	2.12E-06	9.58E-05	6.41E-05	3.67E-05	2.11E-05	6.86E-06	2.88E-06	1.50E-04	6.88E-05	3.03E-05	1.07E-05	1.71E-06	6.13E-07	1.12E-04	5.83E-05	3.05E-05	1.02E-05	1.39E-06	5.09E-07	1.41E-04	7.54E-05	3.24E-05	1.26E-05	1.79E-06	6.54E-07					
22	415260	4818000	8.09E-05	3.47E-05	2.56E-05	1.52E-05	5.02E-06	2.28E-06	1.26E-04	4.89E-05	3.82E-05	2.38E-05	9.81E-06	3.17E-06	7.40E-05	4.11E-05	1.64E-05	7.40E-06	6.73E-07	1.20E-04	5.41E-05	2.86E-05	9.95E-06	1.39E-06	5.37E-07	1.46E-04	7.50E-05	3.48E-05	1.36E-05	1.26E-06	1.19E-07						
23	415300	4818000	8.10E-05	3.88E-05	2.65E-05	1.60E-05	4.87E-06	2.34E-06	1.17E-04	6.16E-05	3.95E-05	2.38E-05	9.89E-06	3.18E-06	7.05E-05	4.97E-05	3.76E-05	1.31E-05	2.01E-06	7.37E-07	2.11E-04	5.55E-05	2.93E-05	9.78E-06	1.35E-06	5.69E-07	1.59E-04	9.05E-05	3.58E-05	1.22E-06	7.71E-07						
24	415340	4818000	5.26E-05	3.62E-05	2.66E-05	1.69E-05	4.38E-06	2.34E-06	1.83E-04	6.64E-05	4.20E-05	2.28E-05	6.10E-06	3.25E-06	1.67E-04	9.92E-05	4.29E-05	1.43E-05	2.12E-06	7.80E-07	1.32E-04	6.96E-05	2.72E-05	9.14E-06	1.31E-06	6.02E-07	1.63E-04	9.33E-05	4.45E-05	1.48E-05	2.43E-06	8.34E-07					
25	415380	4818000	5.57E-05	3.77E-05	2.90E-05	1.64E-05	4.28E-06	2.29E-06	1.49E-04	6.64E-05	4.39E-05	2.39E-05	6.17E-06	3.26E-06	1.76E-04	9.39E-05	4.50E-05	1.50E-05	2.18E-06	8.34E-07	1.41E-04	7.85E-05	2.94E-05	1.03E-06	1.30E-06	6.48E-07	1.68E-04	9.90E-05	4.49E-05	1.63E-05	2.63E-06	8.99E-07					
26	415420	4818000	5.47E-05	3.76E-05	2.89E-05	1.53E-05	4.14E-06	2.22E-06	1.19E-04	7.49E-05	4.43E-05	2.35E-05	6.08E-06	3.24E-06	1.59E-04	8.07E-05	4.27E-05	1.43E-05	2.03E-06	8.54E-07	1.51E-04	8.35E-05	3.14E-05	1.05E-05	1.28E-06	6.79E-07	1.68E-04	1.05E-04	5.11E-05	1.70E-05	2.71E-06	9.42E-07					
27	415460	4818000	5.72E-05	4.03E-05	2.78E-05	1.31E-05	3.83E-06	2.08E-06	1.16E-04	7.74E-05	4.63E-05	2.18E-05	5.80E-06	3.14E-06	1.68E-04	8.02E-05	4.20E-05	1.41E-05	2.03E-06	9.28E-07	1.67E-04	8.35E-05	3.16E-05	1.14E-05	1.47E-06	7.34E-07	1.78E-04	1.11E-04	5.43E-05	1.81E-05	2.87E-06	1.03E-06					
28	415500	4818000	5.40E-05	3.76E-05	2.93E-05	1.58E-05	4.14E-06	2.22E-06	1.19E-04	7.49E-05	4.43E-05	2.35E-05	6.08E-06	3.24E-06	1.59E-04	8.07E-05	4.27E-05	1.43E-05	2.03E-06	8.54E-07	1.51E-04	8.35E-05	3.14E-05	1.05E-05	1.28E-06	6.79E-07	1.68E-04	1.05E-04	5.11E-05	1.70E-05	2.71E-06	9.42E-07					
29	415540	4818000																																			

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL					ESL					IEDF					IRC					RESL									
			1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual						
94	415700	4818040	5.81E-05	3.56E-05	2.36E-05	9.17E-06	2.19E-06	1.05E-06	1.17E-04	6.01E-05	3.65E-05	1.31E-05	3.63E-06	1.85E-06	2.51E-04	1.35E-04	5.29E-05	2.44E-05	3.32E-06	1.62E-06	1.83E-04	8.82E-05	4.19E-05	1.56E-05	3.00E-06	1.18E-06	2.23E-04	1.51E-04	6.14E-05	2.30E-05	3.22E-06	1.74E-06
95	415740	4818040	5.57E-05	3.58E-05	2.33E-05	8.99E-06	1.87E-06	9.16E-07	1.17E-04	6.16E-05	3.51E-05	1.25E-05	3.29E-06	1.63E-06	2.27E-04	1.43E-04	6.45E-05	2.36E-05	4.16E-06	1.85E-06	2.18E-04	9.59E-05	4.41E-05	1.58E-05	3.55E-06	1.30E-06	2.32E-04	1.71E-04	6.68E-05	2.68E-05	3.88E-06	1.96E-06
96	415780	4818040	5.73E-05	3.10E-05	2.01E-05	7.45E-06	1.58E-06	7.90E-07	1.12E-04	6.59E-05	3.53E-05	1.24E-05	2.90E-06	1.41E-06	2.67E-04	1.35E-04	5.91E-05	2.48E-05	5.21E-06	2.10E-06	1.15E-04	4.33E-05	1.71E-05	3.74E-06	1.42E-06	2.46E-04	1.81E-04	6.84E-05	3.15E-05	4.88E-06	2.27E-06	
97	415820	4818040	6.57E-05	3.16E-05	1.59E-05	7.24E-06	1.36E-06	6.93E-07	9.90E-05	6.17E-05	3.38E-05	1.19E-05	2.51E-06	1.24E-06	2.77E-04	1.54E-04	5.90E-05	2.72E-05	5.90E-06	2.44E-06	2.15E-04	1.11E-04	4.63E-05	1.91E-05	3.62E-06	1.56E-06	2.65E-04	1.74E-04	8.17E-05	3.44E-05	6.04E-06	2.63E-06
98	415860	4818040	6.45E-05	3.29E-05	1.63E-05	6.79E-06	1.18E-06	6.24E-07	1.08E-04	5.44E-05	3.01E-05	1.07E-05	2.14E-06	1.12E-06	3.20E-04	1.67E-04	6.95E-05	3.34E-05	6.10E-06	2.75E-06	2.13E-04	1.28E-04	4.85E-05	2.18E-05	3.57E-06	1.67E-06	2.63E-04	1.89E-04	9.01E-05	3.33E-05	7.16E-06	2.99E-06
99	415900	4818040	5.72E-05	3.27E-05	1.52E-05	6.17E-06	1.04E-06	5.66E-07	1.14E-04	5.83E-05	2.47E-05	1.08E-05	1.83E-06	1.02E-06	2.95E-04	1.53E-04	6.97E-05	3.63E-05	6.52E-06	2.02E-06	2.16E-04	8.55E-05	4.19E-05	1.74E-05	4.38E-06	1.74E-06	2.69E-04	1.76E-04	8.79E-05	3.92E-05	8.05E-06	3.34E-06
100	415940	4818040	5.96E-05	2.98E-05	1.32E-05	7.31E-06	9.99E-07	5.15E-07	1.15E-04	5.51E-05	2.35E-05	1.03E-05	1.60E-06	9.30E-07	2.70E-04	1.12E-04	5.64E-05	2.60E-05	7.47E-06	3.16E-06	1.90E-04	9.30E-05	4.19E-05	1.70E-05	4.83E-06	1.80E-06	2.70E-04	1.63E-04	8.27E-05	4.22E-05	8.52E-06	3.66E-06
101	415980	4818040	7.48E-05	2.91E-05	1.24E-05	7.30E-06	9.39E-07	4.54E-07	1.11E-04	4.99E-05	2.34E-05	9.60E-06	1.48E-06	8.27E-07	2.38E-04	1.12E-04	6.76E-05	3.04E-05	9.09E-06	3.74E-06	2.17E-04	1.01E-04	4.32E-05	1.74E-05	5.39E-06	2.04E-06	2.88E-04	1.88E-04	8.96E-05	4.43E-05	9.66E-06	4.32E-06
102	416020	4818040	7.26E-05	2.85E-05	1.18E-05	6.16E-06	8.63E-07	4.20E-07	1.15E-04	4.84E-05	2.48E-05	1.07E-05	1.48E-06	6.75E-07	2.05E-04	1.15E-04	7.01E-05	3.18E-05	1.01E-05	4.24E-06	2.21E-04	1.03E-04	4.81E-05	2.13E-05	5.65E-06	2.28E-06	2.82E-04	1.63E-04	9.30E-05	3.79E-05	1.07E-05	4.72E-06
103	416060	4818040	4.69E-05	2.91E-05	1.20E-05	5.06E-06	1.27E-06	3.71E-07	1.34E-04	6.40E-05	2.45E-05	1.08E-05	1.36E-06	6.70E-07	1.99E-04	1.07E-04	6.14E-05	3.62E-05	1.20E-05	4.79E-06	2.17E-04	9.70E-05	4.41E-05	2.53E-05	6.55E-06	2.55E-06	2.82E-04	1.75E-04	9.23E-05	4.03E-05	1.24E-05	5.20E-06
104	416100	4818040	4.83E-05	2.53E-05	1.19E-05	4.26E-06	6.80E-07	3.35E-07	1.41E-04	4.72E-05	2.39E-05	1.01E-05	1.25E-06	5.98E-07	1.66E-04	1.17E-04	6.14E-05	4.00E-05	1.42E-05	5.57E-06	1.84E-04	1.06E-04	4.98E-05	3.12E-05	7.47E-06	2.86E-06	2.72E-04	1.68E-04	9.83E-05	4.74E-05	1.47E-05	6.00E-06
105	416140	4818040	4.58E-05	2.40E-05	1.08E-05	3.92E-06	5.91E-07	3.09E-07	1.36E-04	4.98E-05	2.23E-05	8.83E-06	1.14E-06	5.45E-07	1.72E-04	1.22E-04	7.02E-05	4.08E-05	1.74E-05	6.52E-06	1.80E-04	9.61E-05	4.98E-05	3.06E-05	5.88E-06	3.28E-06	2.60E-04	1.67E-04	8.93E-05	6.06E-05	1.83E-05	7.15E-06
106	416180	4818040	4.48E-05	2.08E-05	1.06E-05	3.53E-06	5.52E-07	2.94E-07	1.23E-04	5.12E-05	2.00E-05	7.37E-06	1.07E-06	5.15E-07	2.22E-04	1.41E-04	8.81E-05	4.99E-05	2.07E-05	7.87E-06	2.16E-04	1.17E-04	5.91E-05	2.78E-05	3.85E-06	2.79E-04	2.07E-04	9.51E-05	6.73E-05	2.26E-05	8.81E-06	
107	416220	4818040	4.58E-05	2.18E-05	1.10E-05	3.67E-06	5.30E-07	2.82E-07	1.01E-04	4.73E-05	2.33E-05	6.46E-06	8.95E-07	4.88E-07	2.28E-04	1.43E-04	8.89E-05	5.39E-05	2.21E-05	8.98E-06	1.95E-04	1.09E-04	5.70E-05	3.05E-05	1.21E-05	4.37E-06	2.89E-04	2.32E-04	1.23E-04	6.55E-05	2.81E-05	1.07E-05
108	416260	4818040	4.70E-05	2.32E-05	1.13E-05	3.78E-06	5.02E-07	2.68E-07	8.14E-05	4.15E-05	1.77E-05	5.96E-06	8.93E-07	4.58E-07	4.32E-04	1.44E-04	9.40E-05	6.43E-05	2.11E-05	9.74E-06	2.18E-04	1.38E-04	5.89E-05	2.92E-05	1.27E-05	4.79E-06	2.91E-04	2.37E-04	1.37E-04	6.78E-05	3.12E-05	1.23E-05
109	416300	4818040	4.67E-05	2.36E-05	1.14E-05	3.81E-06	4.81E-07	2.56E-07	8.13E-05	3.65E-05	1.67E-05	5.55E-06	8.17E-07	4.28E-07	2.63E-04	1.52E-04	9.43E-05	6.41E-05	1.83E-05	9.92E-06	2.04E-04	1.08E-04	6.97E-05	3.98E-05	1.27E-05	5.15E-06	3.15E-04	2.24E-04	1.38E-04	8.53E-05	3.12E-05	1.36E-05
110	416340	4818040	4.44E-05	2.25E-05	1.10E-05	3.68E-06	4.78E-07	2.45E-07	7.47E-05	4.27E-05	8.27E-05	3.99E-05	1.68E-05	5.61E-06	7.61E-07	4.03E-07	2.48E-04	1.50E-04	9.98E-05	6.15E-05	1.72E-05	9.36E-06	2.46E-04	1.12E-04	6.71E-05	4.36E-05	3.73E-04	2.22E-04	1.43E-04	8.61E-05	2.82E-05	4.2E-05
111	416380	4818040	4.48E-05	2.37E-05	1.02E-05	3.48E-06	4.68E-07	2.35E-07	7.89E-05	4.15E-05	1.72E-05	5.74E-06	7.26E-07	4.32E-07	2.87E-04	1.71E-04	9.31E-05	5.17E-05	1.50E-05	8.21E-06	2.25E-04	1.09E-04	6.40E-05	3.95E-05	1.04E-05	5.56E-06	3.10E-04	2.48E-04	1.55E-04	8.93E-05	2.53E-05	1.38E-05
112	416420	4818040	4.81E-05	2.54E-05	9.54E-06	3.57E-06	4.51E-07	2.28E-07	7.98E-05	4.07E-05	1.70E-05	5.68E-06	6.89E-07	3.64E-07	2.71E-04	1.55E-04	1.08E-04	4.65E-05	1.29E-05	6.79E-06	2.06E-04	1.20E-04	7.13E-05	3.60E-05	9.75E-06	5.39E-06	2.93E-04	2.02E-04	1.96E-04	7.35E-05	2.28E-05	1.24E-05
113	416460	4818040	4.96E-05	2.55E-05	9.57E-06	3.47E-06	4.26E-07	2.20E-07	7.69E-05	3.81E-05	1.62E-05	5.73E-06	6.67E-07	3.47E-07	2.91E-04	1.49E-04	8.66E-05	3.86E-05	1.04E-05	5.31E-06	1.96E-04	1.25E-04	8.65E-05	3.21E-05	9.01E-06	4.92E-06	2.89E-04	2.59E-04	2.18E-04	7.42E-05	1.92E-05	1.03E-05
114	416500	4818040	4.84E-05	2.42E-05	9.07E-06	3.27E-06	4.24E-07	2.13E-07	8.18E-05	4.09E-05	1.53E-05	6.00E-06	6.46E-07	3.32E-07	2.60E-04	1.56E-04	8.81E-05	3.29E-05	8.14E-06	4.13E-06	2.22E-04	1.13E-04	8.42E-05	3.95E-05	8.05E-06	4.32E-06	2.81E-04	2.33E-04	1.46E-04	6.44E-05	1.54E-05	8.08E-06
115	416540	4818040	4.49E-05	2.40E-05	9.25E-06	3.18E-06	4.17E-07	2.06E-07	8.01E-05	4.33E-05	1.62E-05	6.09E-06	6.17E-07	3.19E-07	3.1E-04	1.35E-04	8.87E-05	3.20E-05	5.82E-06	3.25E-06	2.22E-04	1.13E-04	8.94E-05	3.86E-05	7.01E-06	3.68E-06	2.75E-04	2.10E-04	1.23E-04	4.91E-05	1.19E-05	6.20E-06
116	416580	4818040	4.77E-05	2.45E-05	9.51E-06	3.26E-06	4.08E-07	1.99E-07	8.42E-05	4.34E-05	1.63E-05	5.92E-06	5.87E-07	3.09E-07	3.25E-04	1.37E-04	8.98E-05	3.25E-05	5.82E-06	3.38E-06	2.10E-04	1.10E-04	8.45E-05	3.71E-05	6.20E-06	4.20E-06	2.89E-04	2.37E-04	1.38E-04	6.55E-05	8.73E-06	7.6E-06
117	416620	4818040	3.91E-05	2.43E-05	9.44E-06	3.19E-06	4.00E-07	1.93E-07	9.21E-05	4.15E-05	1.55E-05	5.54E-06	5.53E-07	2.93E-07	3.22E-04	1.42E-																

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL					ESL					IEDF					IRC					RESL									
			m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m						
187	414540	4818120	7.32E-05	4.66E-05	1.76E-05	8.38E-06	1.45E-06	6.57E-07	1.36E-04	7.78E-05	2.94E-05	1.44E-05	2.14E-06	1.00E-06	8.08E-05	3.76E-05	1.75E-05	6.99E-06	7.85E-07	2.65E-07	7.02E-05	3.59E-05	1.35E-05	5.56E-06	5.49E-07	2.39E-07	9.11E-05	3.48E-05	2.17E-05	9.37E-06	9.93E-07	2.76E-07
188	414580	4818120	7.33E-05	4.07E-05	1.70E-05	7.84E-06	1.70E-06	6.93E-07	1.37E-04	5.98E-05	2.84E-05	1.25E-05	2.43E-06	1.05E-06	8.29E-05	3.93E-05	1.72E-05	6.76E-06	7.77E-07	2.74E-07	7.10E-05	3.71E-05	1.39E-05	5.84E-06	5.60E-07	2.46E-07	9.25E-05	3.71E-05	2.19E-05	9.32E-06	9.99E-07	2.87E-07
189	414620	4818120	6.96E-05	2.90E-05	1.53E-05	7.18E-06	1.89E-06	7.27E-07	1.43E-04	6.06E-05	2.65E-05	9.57E-06	2.68E-06	1.10E-06	8.62E-05	4.40E-05	1.69E-05	6.50E-06	7.68E-07	2.83E-07	7.08E-05	3.79E-05	1.42E-05	6.12E-06	5.70E-07	2.53E-07	9.34E-05	3.94E-05	2.19E-05	9.27E-06	1.00E-06	2.97E-07
190	414660	4818120	7.33E-05	3.58E-05	1.58E-05	7.52E-06	2.01E-06	7.53E-07	1.53E-04	7.87E-05	3.27E-05	1.09E-05	2.85E-06	1.15E-06	8.76E-05	4.13E-05	1.63E-05	6.40E-06	7.49E-07	2.89E-07	7.55E-05	3.81E-05	1.43E-05	6.35E-06	5.70E-07	2.58E-07	9.36E-05	4.12E-05	2.49E-05	9.05E-06	9.91E-07	3.05E-07
191	414700	4818120	7.80E-05	4.28E-05	1.81E-05	7.48E-06	2.09E-06	7.73E-07	1.43E-04	8.26E-05	3.45E-05	1.19E-05	2.92E-06	1.19E-06	9.70E-05	4.12E-05	1.54E-05	6.49E-06	7.21E-07	2.91E-07	7.80E-05	3.74E-05	1.40E-05	6.48E-06	5.89E-07	2.58E-07	9.24E-05	4.23E-05	2.09E-05	8.66E-06	9.65E-07	3.09E-07
192	414740	4818120	7.49E-05	3.44E-05	1.63E-05	7.21E-06	2.15E-06	8.14E-07	1.42E-04	6.80E-05	3.20E-05	1.13E-05	2.96E-06	1.23E-06	8.84E-05	4.13E-05	1.55E-05	6.65E-06	7.00E-07	2.95E-07	7.40E-05	3.82E-05	1.43E-05	6.67E-06	6.16E-07	2.63E-07	9.20E-05	4.23E-05	2.03E-05	8.29E-06	9.43E-07	3.15E-07
193	414780	4818120	7.34E-05	3.74E-05	1.91E-05	7.10E-06	2.21E-06	8.88E-07	1.32E-04	6.95E-05	3.28E-05	1.19E-05	3.09E-06	1.32E-06	8.66E-05	4.17E-05	1.56E-05	6.91E-06	6.92E-07	3.03E-07	8.22E-05	3.85E-05	1.46E-05	6.88E-06	6.49E-07	2.69E-07	9.36E-05	4.52E-05	1.98E-05	7.96E-06	9.28E-07	3.24E-07
194	414820	4818120	7.17E-05	3.41E-05	1.67E-05	7.97E-06	2.33E-06	9.68E-07	1.28E-04	6.14E-05	2.92E-05	1.27E-05	3.46E-06	1.42E-06	8.69E-05	4.20E-05	1.58E-05	7.23E-06	7.06E-07	3.13E-07	8.18E-05	3.85E-05	1.56E-05	7.08E-06	6.85E-07	2.78E-07	9.63E-05	4.69E-05	1.92E-05	7.63E-06	9.16E-07	3.35E-07
195	414860	4818120	6.33E-05	2.99E-05	1.61E-05	9.90E-06	2.59E-06	1.04E-06	1.24E-04	5.22E-05	2.72E-05	1.37E-05	3.79E-06	1.51E-06	9.50E-05	4.44E-05	1.67E-05	7.64E-06	7.23E-07	3.26E-07	8.09E-05	3.80E-05	1.65E-05	7.29E-06	7.22E-07	2.89E-07	9.93E-05	4.69E-05	1.88E-05	7.49E-06	9.10E-07	3.49E-07
196	414900	4818120	5.30E-05	3.12E-05	1.58E-05	9.97E-06	1.13E-06	1.13E-06	1.01E-04	6.05E-05	2.79E-05	1.50E-05	4.09E-06	1.61E-06	1.01E-04	4.63E-05	1.74E-05	8.12E-06	7.45E-07	3.40E-07	8.34E-05	3.67E-05	1.74E-05	7.45E-06	7.59E-07	3.01E-07	1.02E-04	5.07E-05	1.93E-05	8.03E-06	8.09E-07	3.65E-07
197	414940	4818120	6.00E-05	2.84E-05	1.58E-05	9.83E-06	3.21E-06	1.24E-06	1.09E-04	5.74E-05	2.97E-05	1.56E-05	4.41E-06	1.74E-06	1.04E-04	4.84E-05	1.82E-05	8.84E-06	7.63E-07	3.56E-07	8.96E-05	3.46E-05	1.81E-05	7.55E-06	7.95E-07	3.15E-07	1.04E-04	5.24E-05	1.99E-05	8.48E-06	9.11E-07	3.82E-07
198	414980	4818120	5.40E-05	3.29E-05	1.75E-05	1.00E-05	3.75E-06	1.40E-06	9.80E-05	5.75E-05	2.49E-05	1.54E-05	5.11E-06	1.95E-06	1.07E-04	5.12E-05	1.92E-05	9.37E-06	8.21E-07	3.80E-07	9.33E-05	3.58E-05	1.88E-05	7.67E-06	8.47E-07	3.35E-07	1.09E-04	5.50E-05	2.07E-05	9.18E-06	9.37E-07	4.06E-07
199	415020	4818120	6.36E-05	3.66E-05	1.92E-05	1.20E-05	4.42E-06	1.59E-06	1.15E-04	6.28E-05	2.92E-05	1.55E-05	6.04E-06	2.23E-06	1.22E-04	5.51E-05	2.07E-05	1.07E-04	9.26E-07	4.14E-07	9.53E-05	3.99E-05	1.99E-05	7.91E-06	9.52E-07	3.64E-07	1.20E-04	6.09E-05	2.28E-05	1.01E-05	1.02E-06	4.46E-07
200	415060	4818120	6.17E-05	3.39E-05	2.14E-05	1.46E-05	5.29E-06	1.87E-06	1.13E-04	6.13E-05	3.15E-05	1.79E-05	7.11E-06	2.59E-06	1.45E-04	6.44E-05	2.41E-05	1.18E-05	1.08E-06	4.79E-07	1.01E-04	4.70E-05	2.14E-05	8.30E-06	1.10E-06	4.07E-07	1.35E-04	7.00E-05	2.82E-05	1.14E-05	1.13E-06	5.00E-07
201	415100	4818120	4.93E-05	3.45E-05	2.37E-05	1.53E-05	5.58E-06	2.01E-06	1.15E-04	6.32E-05	3.77E-05	1.89E-05	7.54E-06	2.79E-06	1.54E-04	6.72E-05	2.63E-05	1.25E-05	1.18E-06	4.90E-07	1.05E-04	5.04E-05	2.14E-05	8.13E-06	1.20E-06	4.27E-07	1.40E-04	7.50E-05	2.81E-05	1.23E-05	1.18E-06	5.31E-07
202	415140	4818120	5.04E-05	3.15E-05	2.35E-05	1.55E-05	5.77E-06	2.15E-06	1.14E-04	6.53E-05	4.03E-05	9.33E-05	7.77E-06	2.97E-06	1.54E-04	6.85E-05	2.91E-05	1.32E-05	1.29E-06	5.31E-07	1.16E-04	5.30E-05	2.17E-05	7.95E-06	1.29E-06	4.51E-07	1.44E-04	8.00E-05	3.00E-05	1.33E-05	1.24E-06	5.65E-07
203	415180	4818120	5.09E-05	3.15E-05	2.40E-05	1.45E-05	5.61E-06	2.19E-06	1.15E-04	5.97E-05	3.61E-05	1.95E-05	7.68E-06	3.06E-06	1.53E-04	6.82E-05	3.05E-05	1.34E-05	1.34E-06	5.67E-07	1.18E-04	5.67E-05	2.49E-05	8.15E-06	1.32E-06	4.67E-07	1.45E-04	8.17E-05	3.08E-05	1.39E-05	1.27E-06	5.89E-07
204	415220	4818120	5.52E-05	3.40E-05	2.46E-05	1.52E-05	5.46E-06	2.29E-06	1.06E-04	7.13E-05	3.94E-05	2.35E-05	7.65E-06	3.21E-06	1.59E-04	5.92E-05	3.22E-05	1.35E-05	1.41E-06	5.75E-07	1.34E-04	5.64E-05	2.52E-05	9.32E-06	1.40E-06	4.92E-07	1.53E-04	8.45E-05	3.17E-05	1.48E-05	1.39E-06	6.21E-07
205	415260	4818120	9.81E-05	3.90E-05	2.72E-05	1.59E-05	5.26E-06	2.45E-06	1.58E-04	7.20E-05	4.11E-05	2.62E-05	7.48E-06	3.40E-06	1.66E-04	6.31E-05	3.37E-05	1.37E-05	1.55E-06	6.24E-07	1.39E-04	6.92E-05	2.91E-05	1.14E-05	1.51E-06	5.30E-07	1.60E-04	8.77E-05	3.34E-05	1.58E-05	1.53E-06	6.70E-07
206	415300	4818120	8.87E-05	4.21E-05	2.28E-05	1.77E-05	4.96E-06	2.56E-06	2.03E-04	6.92E-05	4.56E-05	2.63E-05	7.12E-06	3.58E-06	1.71E-04	7.33E-05	3.50E-05	1.39E-05	1.78E-06	6.83E-07	1.47E-04	6.80E-05	3.35E-05	1.10E-05	1.63E-06	5.73E-07	1.67E-04	9.02E-05	3.74E-05	1.69E-05	1.72E-06	7.31E-07
207	415340	4818120	6.03E-05	4.04E-05	3.01E-05	1.79E-05	4.71E-06	2.53E-06	1.97E-04	7.52E-05	4.63E-05	2.62E-05	6.91E-06	3.68E-06	1.78E-04	7.99E-05	3.57E-05	1.37E-05	1.97E-06	7.35E-07	1.49E-04	8.33E-05	3.77E-05	1.26E-05	1.70E-06	6.04E-07	1.75E-04	9.29E-05	4.43E-05	1.76E-05	1.94E-06	7.89E-07
208	415380	4818120	5.48E-05	4.02E-05	3.17E-05	1.70E-05	4.59E-06	2.45E-06	1.42E-04	7.89E-05	4.74E-05	2.67E-05	6.94E-06	3.68E-06	1.75E-04	8.08E-05	3.78E-05	1.31E-05	2.13E-06	7.76E-07	1.46E-04	7.39E-05	3.77E-05	1.26E-05	1.67E-06	6.24E-07	1.82E-04	9.44E-05	4.33E-05	1.79E-05	2.17E-06	8.48E-07
209	415420	4818120	4.92E-05	4.38E-05	2.94E-05	1.49E-05	4.21E-06	2.31E-06	1.34E-04	8.56E-05	5.05E-05	2.45E-05	6.88E-06	3.97E-07	1.34E-04	9.00E-05	4.10E-05	1.40E-05	2.28E-06	8.37E-07	1.54E-04	6.83E-05	3.33E-05	1.11E-05	1.60E-06	6.39E-07	1.88E-04	1.01E-04	4.38E-05	1.95E-05	2.46E-06	9.15E-07
210	415460	4818120	6.34E-05	4.56E-05	3.26E-05	1.35E-05	3.84E-06	2.13E-06	1.36E-04	8.61E-05	5.61E-05	2.25E-05	6.23E-06	3.40E-06	2.43E-04	1.12E-04	4.57E															

AERMOD Screening Dispersion Factors for INL Facilities

Id	Easting	Northing	EIL				ESL				IEDF				IRC				RESL														
			m	thr	3hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual				
280	415820	4818160		6.55E-05	3.63E-05	1.71E-05	6.93E-06	1.07E-06	6.32E-07	1.26E-04	6.44E-05	3.10E-05	1.20E-05	2.22E-06	1.20E-06	3.72E-04	1.75E-04	7.50E-05	3.22E-05	4.41E-06	2.15E-06	2.54E-04	1.13E-04	5.13E-05	1.82E-05	4.02E-06	1.50E-06	2.85E-04	1.96E-04	8.22E-05	2.99E-05	4.46E-06	2.40E-06
281	415860	4818160		6.60E-05	3.26E-05	1.39E-05	7.65E-06	1.18E-06	5.49E-07	1.30E-04	6.38E-05	2.62E-05	1.16E-05	1.86E-06	1.05E-06	3.49E-04	1.56E-04	6.96E-05	2.96E-05	6.11E-06	2.58E-06	2.30E-04	1.31E-04	5.03E-05	2.03E-05	4.28E-06	1.64E-06	3.07E-04	2.22E-04	8.84E-05	3.66E-05	5.68E-06	2.83E-06
282	415900	4818160		8.47E-05	3.26E-05	1.34E-05	7.97E-06	1.04E-06	5.05E-07	1.28E-04	5.91E-05	2.80E-05	1.09E-05	1.66E-06	9.77E-07	3.41E-04	1.94E-04	7.26E-05	2.94E-05	7.19E-06	2.87E-06	2.31E-04	1.35E-04	5.10E-05	2.26E-05	4.06E-06	1.78E-06	3.01E-04	2.32E-04	8.60E-05	4.02E-05	6.82E-06	3.15E-06
283	415940	4818160		8.00E-05	2.96E-05	1.19E-05	6.79E-06	8.95E-07	4.34E-07	1.17E-04	5.20E-05	2.63E-05	1.14E-05	1.57E-06	8.38E-07	3.47E-04	2.23E-04	8.43E-05	3.84E-05	6.88E-06	3.19E-06	2.22E-04	1.26E-04	4.89E-05	2.21E-05	4.27E-06	1.85E-06	2.82E-04	2.04E-04	9.44E-05	3.81E-05	7.89E-06	3.43E-06
284	415980	4818160		5.06E-05	3.07E-05	1.29E-05	5.11E-06	7.88E-07	3.91E-07	1.47E-04	5.12E-05	2.70E-05	1.21E-05	1.50E-06	7.49E-07	3.52E-04	1.73E-04	7.24E-05	3.57E-05	8.23E-06	3.59E-06	2.22E-04	8.88E-05	4.27E-05	1.88E-05	5.28E-06	2.20E-06	2.97E-04	2.02E-04	9.75E-05	4.38E-05	9.49E-06	4.06E-06
285	416020	4818160		5.17E-05	2.79E-05	1.29E-05	4.52E-06	6.99E-07	3.62E-07	1.62E-04	5.42E-05	2.71E-05	1.18E-05	1.40E-06	6.81E-07	2.47E-04	1.43E-04	6.82E-05	3.31E-05	9.66E-06	3.96E-06	2.37E-04	1.12E-04	4.73E-05	1.90E-05	5.82E-06	2.20E-06	3.24E-04	1.99E-04	9.67E-05	5.06E-05	1.09E-05	4.82E-06
286	416060	4818160		4.82E-05	2.27E-05	1.09E-05	3.89E-06	6.18E-07	3.31E-07	1.56E-04	5.79E-05	2.52E-05	1.01E-05	1.28E-06	6.18E-07	2.26E-04	1.23E-04	7.51E-05	3.54E-05	1.17E-06	4.82E-06	2.55E-04	1.12E-04	5.23E-05	2.35E-05	6.25E-06	2.56E-06	3.44E-04	2.05E-04	1.04E-04	4.81E-05	1.24E-05	5.63E-06
287	416100	4818160		4.83E-05	2.16E-05	1.13E-05	3.77E-06	5.67E-07	3.07E-07	1.34E-04	5.70E-05	2.15E-05	7.94E-06	1.15E-06	5.68E-07	2.26E-04	1.17E-04	7.12E-05	4.37E-05	1.48E-06	6.00E-06	2.45E-04	1.04E-04	4.83E-05	3.07E-05	7.63E-06	2.99E-06	3.57E-04	2.15E-04	1.15E-04	5.03E-05	1.57E-05	6.66E-06
288	416140	4818160		4.89E-05	2.53E-05	1.14E-05	3.80E-06	5.43E-07	2.89E-07	1.03E-04	4.97E-05	6.95E-06	1.04E-06	5.27E-07	1.75E-04	1.25E-04	7.86E-05	4.69E-05	1.90E-05	7.30E-06	2.05E-04	1.17E-04	5.83E-05	3.70E-05	9.20E-06	3.51E-06	3.50E-04	2.13E-04	1.29E-04	6.27E-05	2.01E-05	8.25E-06	
289	416180	4818160		5.05E-05	2.45E-05	1.21E-05	4.05E-06	5.11E-07	2.74E-07	8.99E-05	4.31E-05	1.83E-05	6.20E-06	9.35E-07	4.92E-07	3.01E-04	1.67E-04	1.01E-04	5.88E-05	2.47E-06	9.30E-06	2.35E-04	1.25E-04	6.02E-05	3.25E-05	1.11E-05	4.16E-06	3.35E-04	2.19E-04	1.16E-04	6.31E-05	2.53E-05	1.03E-05
290	416220	4818160		4.65E-05	2.36E-05	1.16E-05	3.86E-06	5.05E-07	2.63E-07	9.35E-05	4.18E-05	1.82E-05	6.07E-06	8.82E-07	4.63E-07	3.23E-04	1.77E-04	1.08E-04	6.83E-05	2.74E-05	1.11E-05	1.17E-04	1.18E-04	6.32E-05	3.42E-05	1.35E-05	4.88E-06	3.52E-04	2.62E-04	1.39E-04	8.43E-05	3.42E-05	1.31E-05
291	416260	4818160		4.79E-05	2.45E-05	1.08E-05	3.60E-06	4.98E-07	2.52E-07	9.11E-05	4.55E-05	1.91E-05	6.37E-06	8.15E-07	4.34E-07	3.94E-04	1.98E-04	1.23E-04	7.81E-05	2.58E-05	1.23E-05	2.43E-04	1.60E-04	6.83E-05	3.52E-05	1.47E-05	5.48E-06	3.84E-04	2.86E-04	1.72E-04	9.38E-05	4.11E-05	1.61E-05
292	416300	4818160		5.09E-05	2.69E-05	1.01E-05	3.74E-06	4.81E-07	2.43E-07	9.07E-05	4.59E-05	1.93E-05	6.43E-06	7.81E-07	4.14E-07	3.49E-04	2.20E-04	1.34E-04	7.88E-05	2.23E-05	1.24E-05	2.38E-04	1.22E-04	8.04E-05	4.57E-05	1.47E-05	6.00E-06	4.13E-04	2.86E-04	1.76E-04	1.12E-04	4.22E-05	1.84E-05
293	416340	4818160		5.25E-05	2.69E-05	1.01E-05	3.64E-06	4.62E-07	2.34E-07	8.75E-05	4.30E-05	1.85E-05	6.20E-06	7.54E-07	3.94E-07	3.65E-04	2.09E-04	1.67E-04	6.53E-05	1.90E-05	1.07E-05	2.89E-04	1.20E-04	7.28E-05	4.42E-05	1.33E-05	6.33E-06	4.85E-04	2.92E-04	1.81E-04	1.19E-04	3.68E-05	1.92E-05
294	416380	4818160		5.05E-05	2.50E-05	9.38E-06	3.44E-06	4.59E-07	2.26E-07	9.09E-05	4.50E-05	1.69E-05	6.67E-06	7.32E-07	3.75E-07	3.57E-04	1.93E-04	5.83E-05	1.63E-05	8.64E-06	2.39E-04	1.25E-04	7.01E-04	4.87E-05	1.16E-05	4.87E-06	3.37E-06	3.61E-04	3.20E-04	2.33E-04	1.03E-04	3.22E-05	1.76E-05
295	416420	4818160		4.58E-05	2.54E-05	9.88E-06	3.38E-06	4.47E-07	2.18E-07	1.04E-04	4.86E-05	1.62E-05	6.86E-06	6.92E-07	3.59E-07	3.89E-04	2.02E-04	1.12E-04	4.69E-05	1.28E-05	6.80E-06	2.24E-04	1.38E-04	9.08E-05	3.59E-05	1.63E-05	8.96E-06	3.67E-04	2.71E-04	2.35E-04	9.67E-05	2.66E-05	1.43E-05
296	416460	4818160		4.10E-05	2.54E-05	9.95E-06	3.42E-06	4.33E-07	2.10E-07	1.08E-04	4.88E-05	1.83E-05	6.66E-06	6.93E-07	3.42E-07	3.60E-04	1.96E-04	9.81E-05	4.10E-05	8.99E-06	4.71E-06	2.34E-04	1.27E-04	1.01E-04	4.12E-05	1.55E-05	3.54E-04	2.86E-04	1.79E-04	8.07E-05	2.04E-05	1.07E-05	
297	416500	4818160		4.21E-05	2.48E-05	9.93E-06	3.31E-06	4.22E-07	2.02E-07	1.05E-04	4.61E-05	1.73E-05	6.16E-06	6.23E-07	3.28E-07	4.13E-04	1.76E-04	8.20E-05	3.70E-05	6.17E-06	3.57E-06	2.56E-04	1.24E-04	7.72E-05	3.43E-05	8.07E-06	4.28E-06	3.48E-04	2.36E-04	1.52E-04	6.21E-05	1.45E-05	7.69E-06
298	416540	4818160		4.32E-05	2.34E-05	1.01E-05	3.38E-06	4.16E-07	1.95E-07	9.95E-05	4.41E-05	1.70E-05	5.65E-06	6.25E-07	3.12E-07	3.27E-04	1.77E-04	8.58E-05	3.56E-05	5.33E-06	2.70E-06	2.64E-04	1.25E-04	7.13E-05	2.55E-05	6.96E-06	3.35E-06	3.66E-04	2.37E-04	1.18E-04	5.56E-05	9.65E-06	5.60E-06
299	416580	4818160		4.30E-05	2.21E-05	1.02E-05	3.41E-06	4.15E-07	1.88E-07	8.29E-05	4.49E-05	1.75E-05	5.84E-06	6.13E-07	2.98E-07	3.97E-04	1.61E-04	6.71E-05	2.41E-05	4.38E-06	2.16E-06	2.55E-04	1.27E-04	5.96E-05	2.41E-05	5.48E-06	2.63E-06	4.22E-04	2.18E-04	9.46E-05	4.30E-05	8.00E-06	4.20E-06
300	416620	4818160		4.13E-05	2.28E-05	1.00E-05	3.35E-06	4.14E-07	1.82E-07	7.14E-05	4.38E-05	1.80E-05	6.00E-06	5.89E-07	2.84E-07	2.91E-04	1.34E-04	5.80E-05	1.99E-05	3.46E-06	1.81E-06	2.33E-04	9.31E-05	4.72E-05	2.42E-05	4.08E-06	2.15E-06	3.78E-04	1.95E-04	9.51E-05	3.72E-05	6.83E-06	3.30E-06
301	416660	4818160		4.01E-05	2.26E-05	9.57E-06	3.19E-06	4.10E-07	1.76E-07	7.23E-05	4.11E-05	1.84E-05	6.13E-06	5.44E-07	2.72E-07	2.95E-04	1.40E-04	5.91E-05	1.97E-05	2.98E-05	2.23E-04	1.14E-04	4.73E-05	2.07E-05	3.25E-05	1.77E-06	1.45E-04	1.95E-04	8.51E-05	3.24E-05	5.88E-06	2.70E-06	
302	416700	4818160		4.24E-05	2.21E-05	8.80E-06	3.14E-06	4.05E-07	1.71E-07	6.98E-05	3.76E-05	1.86E-05	6.18E-06	5.42E-07	2.62E-07	2.95E-04	1.43E-04	5.35E-05	2.18E-05	2.65E-06	2.23E-04	1.12E-04	4.44E-05	1.94E-05	3.27E-05	1.45E-06	1.94E-04	1.78E-04	8.63E-05	2.92E-05	4.73E-06	2.40E-06	
303	416740	4818160		4.64E-05	2.11E-05	7.94E-06	3.04E-06																										

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	m	EIL												ESL												IEDF												IRC												RESL											
				1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual																								
373	414660	4818240		7.51E-05	3.73E-05	1.68E-05	7.35E-06	1.80E-06	7.20E-07	1.42E-04	5.45E-05	2.39E-05	1.06E-05	2.61E-06	1.09E-06	8.66E-05	3.03E-05	2.13E-05	9.04E-06	9.51E-07	2.56E-07	6.52E-05	3.15E-05	1.22E-05	5.20E-06	5.43E-07	2.38E-07	9.19E-05	3.27E-05	2.37E-05	1.07E-05	1.12E-06	2.82E-07																														
374	414700	4818240		7.55E-05	3.29E-05	1.50E-05	7.32E-06	1.99E-06	7.62E-07	1.51E-04	7.43E-05	3.09E-05	1.03E-05	2.88E-06	1.16E-06	8.92E-05	3.17E-05	2.17E-05	9.11E-06	9.63E-07	2.66E-07	6.63E-05	3.22E-05	1.23E-05	5.44E-07	5.43E-07	2.38E-07	9.19E-05	3.27E-05	2.37E-05	1.07E-05	1.12E-06	2.82E-07																														
375	414740	4818240		8.50E-05	4.29E-05	1.80E-05	7.73E-06	2.17E-06	8.07E-07	1.54E-04	7.87E-05	3.64E-05	1.21E-05	3.09E-06	1.24E-06	9.22E-05	3.31E-05	2.20E-05	9.14E-06	9.73E-07	2.76E-07	6.86E-05	3.39E-05	1.27E-05	5.41E-07	5.60E-07	2.46E-07	9.42E-05	3.40E-05	2.47E-05	1.10E-05	1.16E-06	2.93E-07	2.82E-07																													
376	414780	4818240		8.44E-05	4.37E-05	1.90E-05	7.69E-06	2.17E-06	8.00E-07	1.55E-04	7.72E-05	3.42E-05	1.21E-05	3.23E-06	1.34E-06	9.42E-05	3.36E-05	2.22E-05	9.11E-06	9.80E-07	2.88E-07	6.72E-05	3.34E-05	1.33E-05	5.03E-07	5.77E-07	2.59E-07	9.72E-05	3.32E-05	2.57E-05	1.14E-05	1.19E-06	3.07E-07																														
377	414820	4818240		8.60E-05	4.32E-05	2.13E-05	7.96E-06	2.42E-06	9.78E-07	1.50E-04	7.77E-05	3.50E-05	1.32E-05	3.44E-06	1.48E-06	9.52E-05	3.31E-05	2.23E-05	9.04E-06	9.86E-07	3.01E-07	7.58E-05	3.36E-05	1.38E-05	5.37E-07	5.94E-07	2.65E-07	1.01E-04	3.67E-05	2.86E-05	1.17E-05	1.23E-06	3.21E-07																														
378	414860	4818240		8.65E-05	4.01E-05	1.89E-05	7.60E-06	2.65E-06	1.10E-06	1.48E-04	7.05E-05	3.27E-05	1.46E-05	4.00E-06	1.64E-06	9.65E-05	4.29E-05	2.27E-05	9.02E-06	1.00E-06	3.18E-07	7.87E-05	3.81E-05	1.43E-05	6.83E-06	6.17E-07	2.78E-07	1.07E-04	3.95E-05	2.77E-05	1.21E-05	1.28E-06	3.40E-07																														
379	414900	4818240		7.83E-05	3.46E-05	1.90E-05	1.14E-05	3.15E-06	1.26E-06	1.49E-04	6.11E-05	3.27E-05	1.70E-05	4.65E-06	1.84E-06	1.05E-04	4.84E-05	2.37E-05	9.24E-06	1.04E-06	3.47E-07	8.33E-05	4.13E-05	1.55E-05	7.55E-06	6.65E-07	3.03E-07	1.16E-04	4.35E-05	2.99E-05	1.29E-05	1.36E-06	3.73E-07																														
380	414940	4818240		7.51E-05	4.14E-05	1.97E-05	1.27E-05	3.58E-06	1.41E-06	1.27E-04	7.56E-05	3.60E-05	1.90E-05	5.16E-06	2.02E-06	1.10E-04	5.27E-05	2.40E-05	9.16E-06	1.06E-06	3.71E-07	9.69E-05	4.36E-05	1.63E-05	8.16E-06	7.26E-07	3.24E-07	1.24E-04	4.69E-05	3.31E-05	1.33E-05	1.41E-06	3.98E-07																														
381	414980	4818240		7.10E-05	3.55E-05	1.89E-05	1.21E-05	4.04E-06	1.54E-06	1.25E-04	6.23E-05	3.42E-05	1.88E-05	5.58E-06	2.17E-06	1.17E-04	5.40E-05	2.31E-05	8.65E-06	1.04E-06	3.81E-07	1.05E-04	4.69E-05	1.76E-05	8.57E-06	7.76E-07	3.32E-07	1.23E-04	4.99E-05	3.32E-05	1.31E-05	1.41E-06	4.11E-07																														
382	415020	4818240		7.31E-05	4.06E-05	1.92E-05	1.18E-05	4.45E-06	1.64E-06	1.18E-04	6.27E-05	2.96E-05	1.68E-05	6.19E-06	2.32E-06	1.20E-04	5.48E-05	2.16E-05	8.72E-06	9.99E-07	3.84E-07	1.08E-04	4.70E-05	1.81E-05	8.74E-06	8.06E-07	3.34E-07	1.20E-04	5.17E-05	3.03E-05	1.26E-05	1.38E-06	4.16E-07																														
383	415060	4818240		6.71E-05	3.67E-05	2.09E-05	1.39E-05	5.03E-06	1.80E-06	1.25E-04	6.70E-05	3.53E-05	1.77E-05	7.07E-06	2.58E-06	1.27E-04	5.22E-05	2.12E-05	9.37E-06	9.93E-07	4.07E-07	1.11E-04	4.88E-05	2.00E-05	9.27E-06	8.74E-07	3.54E-07	1.24E-04	5.65E-05	3.08E-05	1.28E-05	1.41E-06	4.43E-07																														
384	415100	4818240		5.90E-05	3.23E-05	2.21E-05	1.51E-05	5.47E-06	1.96E-06	1.19E-04	6.20E-05	3.62E-05	1.98E-05	7.79E-06	2.85E-06	1.32E-04	6.70E-05	2.14E-05	1.03E-05	1.01E-06	4.37E-07	1.13E-04	4.99E-05	2.21E-05	9.85E-06	9.54E-07	3.82E-07	1.31E-04	6.25E-05	3.16E-05	1.28E-05	1.45E-06	4.78E-07																														
385	415140	4818240		5.07E-05	3.36E-05	2.24E-05	1.58E-05	5.84E-06	2.17E-06	1.23E-04	6.90E-05	4.20E-05	2.07E-05	8.30E-06	3.15E-06	1.44E-04	6.34E-05	2.38E-05	1.13E-05	1.07E-06	4.77E-07	1.19E-04	4.94E-05	2.24E-05	1.04E-05	1.05E-06	4.15E-07	1.40E-04	6.92E-05	3.22E-05	1.29E-05	1.50E-06	5.20E-07																														
386	415180	4818240		6.64E-05	3.47E-05	2.65E-05	1.59E-05	6.17E-06	2.41E-06	1.34E-04	6.93E-05	4.08E-05	2.19E-05	8.74E-06	3.47E-06	1.72E-04	7.12E-05	2.67E-05	1.28E-05	1.20E-06	5.34E-07	1.34E-04	5.10E-05	2.64E-05	1.10E-05	1.16E-06	4.62E-07	1.56E-04	7.80E-05	3.32E-05	1.31E-05	1.58E-06	5.77E-07																														
387	415220	4818240		5.84E-05	3.46E-05	2.61E-05	1.67E-05	5.78E-06	2.46E-06	1.17E-04	7.85E-05	4.34E-05	2.62E-05	8.50E-06	3.56E-06	1.72E-04	6.50E-05	2.44E-05	1.31E-05	1.18E-06	5.36E-07	1.27E-04	4.86E-05	2.49E-05	1.02E-05	1.16E-06	4.56E-07	1.54E-04	7.83E-05	3.32E-05	1.30E-05	1.52E-06	5.86E-07																														
388	415260	4818240		1.13E-04	4.23E-05	2.76E-05	1.61E-05	5.25E-06	2.52E-06	1.78E-04	7.38E-05	4.23E-05	2.79E-05	7.98E-06	3.66E-06	1.52E-04	6.50E-05	2.45E-05	1.36E-05	1.20E-06	5.54E-07	1.21E-04	5.22E-05	2.43E-05	9.70E-06	8.74E-07	3.59E-07	1.79E-04	7.99E-05	3.05E-05	1.37E-05	1.51E-06	6.08E-07																														
389	415300	4818240		7.28E-05	2.42E-05	2.78E-05	1.77E-05	4.88E-06	2.62E-06	2.20E-04	8.77E-05	5.01E-05	2.73E-05	7.49E-06	3.86E-06	1.93E-04	7.55E-05	2.87E-05	1.52E-05	1.35E-06	5.95E-07	1.31E-04	5.59E-05	2.49E-05	9.67E-06	1.35E-06	4.97E-07	1.61E-04	9.34E-05	3.13E-05	1.48E-05	1.54E-06	6.52E-07																														
390	415340	4818240		6.94E-05	4.29E-05	3.25E-05	1.81E-05	4.89E-06	2.66E-06	2.00E-04	8.17E-05	4.82E-05	2.94E-05	7.71E-06	4.08E-06	2.21E-04	8.35E-05	3.40E-05	1.68E-05	1.53E-06	4.47E-07	1.44E-04	6.73E-05	2.84E-05	9.60E-06	1.49E-06	5.30E-07	1.75E-04	9.31E-05	3.45E-05	1.66E-05	1.62E-06	7.12E-07																														
391	415380	4818240		6.88E-05	4.81E-05	3.32E-05	1.68E-05	4.69E-06	2.57E-06	1.56E-04	9.31E-05	5.74E-05	2.96E-05	7.75E-06	4.13E-06	2.26E-04	9.15E-05	4.01E-05	1.87E-05	1.75E-06	7.23E-07	1.66E-04	7.26E-05	3.26E-05	1.09E-05	1.69E-06	5.97E-07	1.93E-04	1.05E-04	3.92E-05	1.87E-05	1.77E-06	7.96E-07																														
392	415420	4818240		6.88E-05	4.75E-05	3.35E-05	1.44E-05	4.23E-06	2.32E-06	1.51E-04	9.51E-05	5.64E-05	2.65E-05	7.10E-06	3.86E-06	2.34E-04	9.34E-05	4.56E-05	2.02E-05	1.98E-06	8.05E-07	1.86E-04	8.11E-05	3.52E-05	1.29E-05	1.87E-06	6.58E-07	2.08E-04	1.17E-04	4.37E-05	2.09E-05	1.95E-06	8.85E-07																														
393	415460	4818240		8.46E-05	4.85E-05	3.38E-05	1.41E-05	3.88E-06	2.13E-06	1.64E-04	9.81E-05	6.81E-05	2.51E-05	6.53E-06	3.64E-06	2.38E-04	8.83E-05	4.62E-05	1.98E-05	2.08E-06	8.44E-07	1.80E-04	9.74E-05	4.08E-05	1.36E-05	1.94E-06	6.88E-07	2.15E-04	1.21E-04	4.54E-05																																	

Rec ID	Easting	Northing	EIL				ESL				IEDF				IRC				RESL													
			m	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual						
466	415940	4818280	5.40E-05	3.01E-05	1.37E-05	4.60E-06	7.25E-07	3.82E-07	1.81E-04	6.08E-05	2.99E-05	1.35E-05	1.55E-06	7.64E-07	4.42E-04	2.11E-04	9.33E-05	3.62E-05	6.62E-06	2.83E-06	2.53E-04	1.43E-04	5.58E-05	2.45E-05	4.90E-06	1.93E-06	3.40E-04	2.30E-04	9.80E-05	3.45E-05	5.61E-06	3.03E-06
467	415980	4818280	5.56E-05	2.49E-05	1.22E-05	4.06E-06	6.47E-07	3.54E-07	1.80E-04	6.87E-05	2.87E-05	1.18E-05	1.43E-06	6.99E-07	4.69E-04	2.54E-04	9.72E-05	4.04E-05	9.33E-06	3.73E-06	2.73E-04	1.59E-04	5.99E-05	2.69E-05	4.88E-06	2.21E-06	4.22E-04	3.06E-04	1.18E-04	4.62E-05	8.16E-06	4.06E-06
468	416020	4818280	5.34E-05	2.74E-05	1.25E-05	4.18E-06	6.13E-07	3.33E-07	1.50E-04	6.58E-05	2.47E-05	8.78E-06	1.29E-06	6.49E-07	4.68E-04	2.92E-04	1.11E-04	5.16E-05	9.63E-06	5.15E-06	2.73E-04	1.15E-04	5.21E-05	2.16E-05	5.86E-06	2.38E-06	4.07E-04	2.63E-04	1.21E-04	5.45E-05	1.02E-05	4.68E-06
469	416060	4818280	5.70E-05	2.69E-05	1.29E-05	4.32E-06	5.69E-07	3.05E-07	1.13E-04	5.32E-05	2.29E-05	7.72E-06	1.13E-06	5.53E-07	4.07E-04	1.57E-04	7.96E-05	4.22E-05	1.18E-05	4.89E-06	2.67E-04	1.26E-04	5.40E-05	2.38E-05	6.79E-06	2.61E-06	4.21E-04	2.77E-04	1.32E-04	5.78E-05	1.34E-05	5.80E-06
470	416100	4818280	5.32E-05	2.59E-05	1.24E-05	4.15E-06	5.42E-07	2.89E-07	1.00E-04	4.56E-05	2.14E-05	6.74E-06	1.01E-06	5.48E-07	2.84E-04	1.50E-04	8.24E-05	4.49E-05	1.47E-05	6.20E-06	3.03E-04	1.24E-04	6.13E-05	2.66E-05	7.40E-06	3.08E-06	4.80E-04	3.69E-04	6.89E-05	1.58E-05	7.22E-06	
471	416140	4818280	5.23E-05	2.62E-05	1.16E-05	3.87E-06	5.37E-07	2.75E-07	1.09E-04	5.02E-05	2.24E-05	7.14E-06	9.39E-07	5.13E-07	2.46E-04	1.32E-04	8.28E-05	4.81E-05	1.85E-05	7.68E-06	2.72E-04	1.17E-04	5.33E-05	3.86E-05	9.56E-06	3.76E-06	5.14E-04	2.90E-04	1.53E-04	7.05E-05	2.12E-05	9.12E-06
472	416180	4818280	5.48E-05	2.89E-05	1.08E-05	3.97E-06	5.15E-07	2.62E-07	1.04E-04	5.21E-05	2.19E-05	7.31E-06	8.92E-07	4.78E-07	3.78E-04	2.25E-04	1.08E-04	6.75E-05	2.81E-05	1.06E-05	2.27E-04	1.31E-04	6.51E-05	4.30E-05	1.19E-05	4.57E-06	5.45E-04	2.96E-04	1.73E-04	8.80E-05	2.86E-05	1.18E-05
473	416220	4818280	5.56E-05	2.82E-05	1.06E-05	3.78E-06	4.98E-07	2.48E-07	1.00E-04	4.85E-05	2.10E-05	7.00E-06	8.49E-07	4.44E-07	4.92E-04	2.30E-04	1.05E-04	8.76E-05	3.57E-05	1.43E-05	2.73E-04	1.43E-04	7.54E-05	4.38E-05	1.50E-05	5.55E-06	4.55E-04	3.01E-04	1.50E-04	1.12E-04	3.87E-05	1.54E-05
474	416260	4818280	5.25E-05	2.60E-05	9.84E-06	3.65E-06	4.96E-07	2.42E-07	1.03E-04	4.98E-05	2.14E-05	7.43E-06	8.39E-07	4.27E-07	7.02E-04	2.52E-04	1.62E-04	1.02E-04	3.23E-05	1.63E-05	2.75E-04	1.83E-04	7.90E-05	4.28E-05	1.75E-05	6.66E-06	5.05E-04	3.64E-04	2.22E-04	1.29E-04	5.58E-05	2.15E-05
475	416300	4818280	4.67E-05	2.72E-05	1.05E-05	3.64E-06	4.79E-07	2.31E-07	1.19E-04	5.51E-05	2.07E-05	7.78E-06	7.88E-07	4.05E-07	4.79E-04	3.24E-04	2.29E-04	8.82E-05	2.84E-05	1.55E-05	2.77E-04	1.42E-04	9.33E-05	5.39E-05	1.76E-05	7.29E-06	6.23E-04	4.02E-04	2.47E-04	1.62E-04	6.16E-05	2.69E-05
476	416340	4818280	4.37E-05	2.68E-05	1.06E-05	3.57E-06	4.51E-07	2.22E-07	1.26E-04	5.54E-05	2.08E-05	7.56E-06	7.32E-07	3.85E-07	4.76E-04	2.47E-04	1.65E-04	8.19E-05	2.18E-05	1.16E-05	3.24E-04	1.36E-04	8.16E-05	5.24E-05	1.55E-05	7.67E-06	5.68E-04	4.06E-04	2.62E-04	1.65E-04	4.79E-05	2.68E-05
477	416380	4818280	4.61E-05	2.53E-05	1.07E-05	3.57E-06	4.54E-07	2.14E-07	1.20E-04	5.14E-05	1.93E-05	6.87E-06	7.12E-07	3.67E-07	4.81E-04	2.61E-04	1.43E-04	5.70E-05	1.53E-05	7.75E-06	2.71E-04	1.55E-04	9.07E-05	4.72E-05	1.33E-05	7.43E-06	5.11E-04	3.72E-04	3.20E-04	1.32E-04	3.80E-05	2.09E-05
478	416420	4818280	4.65E-05	2.32E-05	1.07E-05	3.57E-06	4.58E-07	2.08E-07	1.06E-04	5.10E-05	1.91E-05	6.39E-06	7.16E-07	3.51E-07	5.86E-04	2.02E-04	1.05E-04	5.09E-05	9.52E-06	5.26E-06	2.70E-04	1.47E-04	1.20E-04	4.75E-05	1.22E-05	6.44E-06	4.88E-04	3.72E-04	2.24E-04	9.91E-05	2.67E-05	1.40E-05
479	416460	4818280	4.52E-05	2.42E-05	1.05E-05	3.40E-06	4.62E-07	2.02E-07	8.80E-05	5.12E-05	1.95E-05	6.52E-06	6.96E-07	3.35E-07	6.26E-04	2.20E-04	1.06E-04	4.38E-05	7.32E-06	3.65E-06	2.93E-04	1.41E-04	8.86E-05	4.28E-05	9.93E-06	5.15E-06	4.93E-04	2.95E-04	1.62E-04	7.79E-05	1.60E-05	8.91E-06
480	416500	4818280	4.34E-05	2.40E-05	9.95E-06	3.54E-06	4.58E-07	1.95E-07	8.34E-05	4.87E-05	2.02E-05	6.74E-06	6.58E-07	3.20E-07	4.33E-04	2.09E-04	8.21E-05	2.84E-05	5.42E-06	2.69E-06	2.85E-04	1.42E-04	7.83E-05	3.31E-05	7.97E-06	3.88E-06	6.08E-04	2.82E-04	1.25E-04	5.59E-05	1.11E-05	6.04E-06
481	416540	4818280	4.59E-05	2.31E-05	8.96E-06	3.38E-06	4.49E-07	1.86E-07	8.82E-05	4.43E-05	2.05E-05	6.84E-06	6.19E-07	3.04E-07	3.85E-04	1.76E-04	7.47E-05	2.46E-05	4.10E-06	2.14E-06	2.61E-04	1.28E-04	6.11E-05	3.26E-05	8.07E-06	4.22E-07	5.00E-04	2.91E-04	1.19E-04	4.75E-05	8.88E-06	4.38E-06
482	416580	4818280	4.53E-05	2.19E-05	8.22E-06	3.25E-06	4.39E-07	1.82E-07	7.62E-05	4.05E-05	2.03E-05	6.77E-06	6.17E-07	2.91E-07	3.85E-04	1.78E-04	6.69E-05	2.52E-05	3.54E-06	1.79E-06	2.94E-04	1.14E-04	5.95E-05	2.98E-05	4.72E-06	2.22E-07	4.92E-04	2.31E-04	1.12E-04	3.76E-05	7.05E-06	3.43E-06
483	416620	4818280	5.62E-05	2.02E-05	8.13E-06	3.24E-06	4.21E-07	1.76E-07	7.76E-05	4.08E-05	1.96E-05	6.55E-06	6.20E-07	2.80E-07	3.91E-04	1.75E-04	7.38E-05	2.49E-05	3.02E-06	1.54E-06	2.59E-04	1.31E-04	5.26E-05	2.10E-05	3.89E-06	1.79E-06	4.20E-04	2.33E-04	1.16E-04	3.98E-05	8.51E-06	2.85E-06
484	416660	4818280	5.69E-05	2.11E-05	8.85E-06	3.54E-06	3.98E-07	1.69E-07	7.83E-05	3.97E-05	1.83E-05	6.10E-06	6.14E-07	2.65E-07	3.17E-04	1.60E-04	8.91E-05	2.97E-05	2.84E-06	1.40E-06	3.25E-04	1.12E-04	4.85E-05	2.00E-05	3.25E-06	1.45E-06	3.69E-04	2.23E-04	1.22E-04	4.07E-05	5.04E-06	2.49E-06
485	416700	4818280	5.49E-05	2.30E-05	9.29E-06	3.70E-06	3.76E-07	1.62E-07	7.89E-05	3.75E-05	1.65E-05	5.51E-06	6.00E-07	2.51E-07	3.22E-04	1.64E-04	8.04E-05	2.68E-05	2.69E-06	1.27E-06	2.25E-04	1.12E-04	4.21E-05	1.44E-05	2.51E-06	1.21E-06	3.44E-04	2.01E-04	1.19E-04	3.97E-05	4.50E-06	2.20E-06
486	416740	4818280	5.10E-05	2.78E-05	1.04E-05	3.76E-06	3.60E-07	1.99E-07	7.77E-05	3.47E-05	1.47E-05	4.90E-06	5.82E-07	2.41E-07	3.14E-04	1.33E-04	6.08E-05	2.02E-05	2.62E-06	1.16E-06	2.26E-04	9.02E-05	4.17E-05	1.39E-05	2.01E-06	1.05E-06	3.32E-04	1.97E-04	1.00E-04	3.34E-05	4.03E-06	1.93E-06
487	416780	4818280	5.02E-05	2.42E-05	1.13E-05	3.80E-06	3.40E-07	1.57E-07	7.39E-05	3.16E-05	1.26E-05	4.32E-06	5.86E-07	2.33E-07	2.92E-04	1.42E-04	5.31E-05	2.05E-05	2.23E-06	1.06E-06	2.13E-04	9.28E-05	4.17E-05	1.31E-05	9.16E-07	3.11E-06	3.00E-04	1.76E-04	7.67E-05	3.73E-06	7.71E-06	
488	416820	4818280	4.89E-05	1.35E-05	1.17E-05	3.94E-06	3.55E-07	1.73E-07	3.37E-05	3.20E-05	1.27E-05	4.67E-06	5.37E-07	2.29E-07	3.05E-04	1.54E-04	5.93E-05	1.93E-05	1.99E-06	9.35E-06	1.65E-06	8.30E-05	2.99E-05	1.87E-06	1.69E-06	8.30E-06	3.29E-04	1.87E-04	7.69E-05	4.32E-06	1.52E-06	
489	416860	4818280	7.91E-05	3.97E-05	1.62E-05	6.31E-06	1.02E-06	4.80E-07	1.30E-04	6.56E-05	2.82E-05	1.10E-05	1.86E-06	7.95E-07	7.70E-05	2.																

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL					ESL					IEDF					IRC					RESL									
	m	m	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual
559	414870	4818360	1.02E-04	5.53E-05	2.18E-05	9.39E-06	2.62E-06	9.72E-07	1.94E-04	1.09E-04	4.50E-05	1.50E-05	3.83E-06	1.52E-06	9.74E-05	3.29E-05	2.23E-05	1.06E-05	1.12E-06	2.92E-07	7.76E-05	3.60E-05	1.82E-05	7.19E-06	8.09E-07	2.69E-07	1.07E-04	4.41E-04	1.82E-05	1.02E-05	1.11E-06	3.31E-07
560	414880	4818360	1.11E-04	5.70E-05	2.45E-05	9.88E-06	2.95E-06	1.12E-07	2.04E-04	1.07E-04	4.55E-05	1.58E-05	4.25E-06	1.75E-06	1.12E-06	3.66E-05	2.54E-05	1.19E-05	1.25E-06	3.28E-07	8.61E-05	4.14E-05	1.92E-05	7.90E-06	8.60E-07	2.97E-07	1.17E-04	4.63E-04	2.08E-05	1.14E-05	1.24E-06	3.43E-07
561	414890	4818360	1.20E-04	5.90E-05	2.62E-05	1.05E-06	3.12E-06	1.25E-07	2.14E-04	1.12E-04	4.60E-05	1.66E-05	4.35E-06	1.78E-06	1.15E-06	3.74E-05	2.61E-05	1.24E-05	1.29E-06	3.38E-07	8.81E-05	4.24E-05	1.97E-05	8.01E-06	8.81E-07	3.06E-07	1.20E-04	4.72E-04	2.14E-05	1.16E-05	1.26E-06	3.51E-07
562	414900	4818360	1.09E-04	5.07E-05	2.35E-05	1.21E-05	3.48E-06	1.42E-06	1.90E-04	9.92E-05	4.19E-05	1.91E-05	5.20E-06	2.12E-06	1.18E-06	4.00E-05	2.87E-05	1.30E-05	1.37E-06	3.55E-07	9.44E-05	4.45E-05	1.83E-05	7.18E-06	8.39E-07	3.30E-07	1.25E-04	4.42E-04	2.48E-05	1.29E-05	1.38E-06	3.75E-07
563	414940	4818360	9.40E-05	4.67E-05	2.16E-05	1.43E-05	5.81E-06	1.54E-06	1.68E-04	7.76E-05	3.87E-05	2.10E-05	5.62E-06	2.22E-06	1.19E-04	4.05E-05	2.94E-05	1.31E-05	1.38E-06	3.59E-07	9.39E-05	4.36E-05	1.72E-05	7.28E-06	8.00E-07	3.20E-07	1.25E-04	4.27E-04	2.61E-05	1.33E-05	1.43E-06	3.84E-07
564	414980	4818360	9.60E-05	4.93E-05	2.40E-05	1.56E-05	4.28E-06	1.68E-06	1.50E-04	8.49E-05	4.20E-05	2.27E-05	6.06E-06	2.38E-06	1.23E-04	4.31E-05	3.06E-05	1.34E-05	1.41E-06	3.72E-07	9.47E-05	4.22E-05	1.64E-05	7.59E-06	7.83E-07	3.28E-07	1.28E-04	4.26E-04	2.81E-05	1.41E-05	1.50E-06	3.99E-07
565	415020	4818360	9.07E-05	4.66E-05	2.16E-05	1.31E-05	4.89E-06	1.85E-06	1.35E-04	7.77E-05	4.34E-05	2.13E-05	6.77E-06	2.58E-06	1.29E-04	4.17E-05	3.13E-05	1.35E-05	1.43E-06	3.81E-07	9.33E-05	4.35E-05	1.63E-05	7.65E-07	7.58E-07	3.32E-07	1.29E-04	4.38E-04	2.98E-05	1.46E-05	1.55E-06	4.10E-07
566	415150	4818360	8.95E-05	4.56E-05	2.30E-05	1.48E-05	5.41E-06	1.49E-06	1.45E-04	7.65E-05	3.99E-05	1.95E-05	7.64E-06	2.65E-06	1.39E-04	4.02E-05	3.14E-05	1.34E-05	1.42E-06	3.84E-07	9.36E-05	4.39E-05	1.65E-05	7.60E-07	7.33E-07	3.29E-07	1.29E-04	4.40E-04	3.11E-05	1.49E-05	1.58E-06	4.17E-07
567	415170	4818360	7.71E-05	4.13E-05	1.73E-05	1.02E-05	2.07E-06	6.66E-06	1.20E-04	6.20E-05	3.07E-05	1.47E-05	3.32E-06	1.27E-06	1.07E-04	3.58E-05	2.67E-05	1.24E-05	1.36E-06	3.42E-07	8.72E-05	4.12E-05	1.68E-05	7.42E-07	7.33E-07	3.29E-07	1.29E-04	4.40E-04	3.09E-05	1.48E-05		

ENGINEERING CALCULATIONS AND ANALYSIS AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL					ESL					IEDF					IRC					RESL									
			m	thr	3hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual	m	thr	3hr	8hr	24hr	Month	Annual			
652	416060	4818400	6.00E-05	3.18E-05	1.19E-05	4.31E-06	5.53E-07	2.84E-07	1.20E-04	5.91E-05	2.50E-05	8.33E-06	1.03E-06	5.57E-07	6.17E-04	3.17E-04	1.29E-04	5.98E-05	1.31E-05	4.54E-06	2.98E-04	1.71E-04	6.46E-05	3.02E-05	6.24E-06	2.96E-06	5.81E-04	3.64E-04	1.52E-04	5.32E-05	9.06E-06	4.67E-06
653	416100	4818400	6.14E-05	3.13E-05	1.17E-05	4.15E-06	5.43E-07	2.69E-07	1.20E-04	5.71E-05	2.46E-05	8.22E-06	9.82E-07	5.14E-07	5.92E-04	3.05E-04	1.20E-04	5.66E-05	1.41E-05	6.58E-06	2.87E-04	1.36E-04	6.16E-05	2.86E-05	8.38E-06	3.38E-06	7.37E-04	4.23E-04	1.66E-04	7.81E-05	1.29E-05	6.34E-06
654	416140	4818400	5.90E-05	2.90E-05	1.09E-05	4.59E-06	5.32E-07	2.59E-07	1.19E-04	5.51E-05	2.26E-05	8.22E-06	9.67E-07	4.88E-07	5.91E-04	3.20E-04	1.04E-04	6.38E-05	1.87E-05	6.14E-06	3.60E-04	1.39E-04	7.18E-05	3.08E-05	9.44E-06	4.03E-06	7.64E-04	4.20E-04	1.61E-04	1.00E-04	2.00E-05	9.15E-06
655	416180	4818400	4.92E-05	2.97E-05	1.18E-05	3.95E-06	5.13E-07	2.48E-07	1.37E-04	6.32E-05	2.17E-05	8.92E-06	9.10E-07	4.63E-07	6.05E-04	2.23E-04	9.61E-05	6.22E-05	2.43E-05	1.01E-05	2.94E-04	1.44E-04	6.90E-05	4.96E-05	1.31E-05	5.17E-06	7.94E-04	4.50E-04	1.06E-04	2.67E-05	1.29E-05	6.34E-06
656	416220	4818400	4.93E-05	2.79E-05	1.20E-05	3.99E-06	4.89E-07	2.33E-07	1.46E-04	6.32E-05	2.37E-05	9.53E-06	8.16E-07	4.26E-07	7.68E-04	2.48E-04	1.39E-04	5.57E-05	3.25E-05	2.24E-05	1.66E-04	9.32E-05	4.82E-05	1.73E-05	6.71E-06	9.29E-04	4.58E-04	1.23E-04	2.58E-05	1.39E-05	6.71E-06	
657	416260	4818400	5.06E-05	2.49E-05	1.18E-05	3.92E-06	4.87E-07	2.22E-07	1.37E-04	6.69E-05	2.31E-05	7.53E-06	8.03E-07	3.99E-07	6.70E-04	4.17E-04	2.45E-04	1.53E-04	4.67E-05	2.55E-05	3.21E-04	2.13E-04	9.14E-05	5.41E-05	2.23E-05	8.43E-06	8.27E-04	5.01E-04	2.86E-04	1.62E-04	7.93E-05	3.10E-05
658	416300	4818400	4.97E-05	2.58E-05	1.13E-05	3.78E-06	5.06E-07	2.20E-07	1.17E-04	5.96E-05	2.24E-05	7.47E-06	8.22E-07	3.93E-07	6.32E-04	3.12E-04	2.54E-04	1.24E-04	3.29E-05	1.70E-05	3.23E-04	1.68E-04	1.09E-04	6.50E-05	2.25E-05	9.55E-06	1.07E-03	6.38E-04	3.88E-04	2.68E-04	9.94E-05	4.46E-05
659	416340	4818400	4.67E-05	2.58E-05	1.06E-05	3.72E-06	5.06E-07	2.14E-07	9.63E-05	5.85E-05	2.20E-05	7.33E-06	7.87E-07	3.74E-07	5.91E-04	3.09E-04	1.55E-04	7.23E-05	1.82E-05	9.74E-06	3.12E-04	1.65E-04	9.31E-05	6.00E-05	1.89E-05	9.87E-06	8.23E-04	6.02E-04	5.15E-04	2.09E-04	6.66E-05	3.43E-05
660	416380	4818400	5.19E-05	2.45E-05	9.42E-06	3.67E-06	4.98E-07	2.07E-07	9.75E-05	5.35E-05	2.29E-05	7.62E-06	7.27E-07	3.56E-07	7.64E-04	2.98E-04	1.56E-04	6.02E-05	1.16E-05	5.78E-06	2.95E-04	1.80E-04	1.37E-04	5.49E-05	1.65E-05	8.74E-06	7.63E-04	4.45E-04	3.22E-04	1.29E-04	3.59E-05	1.92E-05
661	416420	4818400	6.01E-05	2.27E-05	8.96E-06	3.49E-06	4.89E-07	2.02E-07	9.16E-05	4.67E-05	2.29E-05	7.64E-06	7.12E-07	3.41E-07	5.27E-04	2.58E-04	9.88E-05	3.56E-05	5.75E-06	3.66E-06	3.94E-04	1.60E-04	1.09E-04	5.57E-05	1.30E-05	6.72E-06	9.45E-04	4.76E-04	3.10E-04	9.18E-05	1.86E-05	9.94E-06
662	416460	4818400	6.43E-05	2.22E-05	9.33E-06	3.76E-06	4.87E-07	1.95E-07	8.89E-05	4.69E-05	2.22E-05	7.39E-06	7.24E-07	3.25E-07	4.94E-04	2.22E-04	9.03E-05	3.32E-05	5.20E-06	2.73E-06	3.27E-04	1.60E-04	8.62E-05	3.81E-05	9.35E-06	4.71E-06	6.17E-04	3.27E-04	1.53E-04	5.71E-05	1.22E-05	6.04E-06
663	416500	4818400	6.41E-05	2.45E-05	1.03E-05	4.13E-06	4.45E-07	1.90E-07	9.10E-05	4.58E-05	2.08E-05	6.93E-06	7.32E-07	3.12E-07	4.46E-04	2.15E-04	1.16E-04	3.86E-05	4.44E-06	2.19E-06	3.09E-04	1.29E-04	6.28E-05	3.19E-05	5.97E-06	3.23E-06	6.68E-04	3.47E-04	1.51E-04	5.22E-05	8.70E-06	4.30E-06
664	416540	4818400	5.98E-05	3.04E-05	1.14E-05	4.24E-06	4.19E-07	1.84E-07	9.29E-05	4.24E-05	1.85E-05	6.18E-06	7.16E-07	2.96E-07	4.39E-04	1.13E-04	3.76E-05	3.83E-06	1.91E-06	2.93E-04	1.49E-04	6.49E-05	2.42E-05	4.99E-06	2.38E-06	5.20E-04	2.90E-04	1.60E-04	5.33E-05	6.92E-06	3.49E-06	
665	416580	4818400	5.93E-05	3.39E-05	1.27E-05	4.28E-06	3.98E-07	1.79E-07	9.18E-05	3.89E-05	1.63E-05	5.43E-06	6.93E-07	2.63E-07	4.47E-04	1.73E-04	7.43E-05	2.71E-05	3.56E-06	1.60E-06	3.67E-04	1.24E-04	5.60E-05	2.26E-05	4.28E-06	1.84E-06	4.87E-04	2.57E-04	1.27E-04	4.24E-05	6.21E-06	2.94E-06
666	416620	4818400	5.71E-05	3.54E-05	1.33E-05	4.47E-06	3.74E-07	1.74E-07	8.68E-05	3.46E-05	1.37E-05	4.96E-06	6.83E-07	2.69E-07	4.37E-04	2.20E-04	8.40E-05	3.00E-05	2.94E-06	1.46E-06	2.63E-04	1.33E-04	4.97E-05	1.70E-05	3.04E-06	1.44E-06	4.73E-04	2.83E-04	1.18E-04	4.19E-05	5.43E-06	2.60E-06
667	416660	4818400	5.39E-05	3.05E-05	1.31E-05	4.42E-06	3.74E-07	1.69E-07	8.74E-05	3.60E-05	1.35E-05	5.31E-06	6.07E-07	2.65E-07	4.29E-04	1.94E-04	8.19E-05	3.04E-05	3.27E-06	1.36E-06	2.94E-04	1.06E-04	4.62E-05	1.54E-05	3.36E-06	1.45E-06	4.45E-04	2.62E-04	1.15E-04	4.22E-05	5.49E-06	2.36E-06
668	416700	4818400	5.27E-05	3.31E-05	1.24E-05	4.19E-06	3.55E-07	1.65E-07	8.43E-05	4.03E-05	1.51E-05	5.50E-06	5.99E-07	2.44E-07	4.48E-04	1.88E-04	7.06E-05	2.49E-05	3.57E-06	1.30E-06	3.44E-04	1.06E-04	3.99E-05	1.51E-05	2.08E-06	1.12E-06	4.25E-04	2.34E-04	1.03E-04	3.52E-05	5.53E-06	2.18E-06
669	416740	4818400	5.38E-05	3.02E-05	1.13E-05	4.13E-06	3.51E-07	1.62E-07	7.97E-05	4.42E-05	1.66E-05	5.57E-06	5.16E-07	2.35E-07	4.43E-04	1.77E-04	6.66E-05	2.69E-05	3.54E-06	1.21E-06	2.21E-04	1.05E-04	4.61E-05	1.54E-05	1.88E-06	9.30E-07	3.97E-04	2.51E-04	1.40E-04	3.22E-05	5.25E-06	1.97E-06
670	416780	4818400	5.51E-05	2.55E-05	9.56E-06	3.99E-06	3.47E-07	1.59E-07	7.92E-05	4.67E-05	1.75E-05	5.88E-06	4.81E-07	2.29E-07	3.40E-04	1.62E-04	6.08E-05	2.51E-05	3.21E-06	1.12E-06	2.03E-04	9.95E-05	5.37E-05	1.79E-05	1.77E-06	8.42E-07	3.54E-04	2.67E-04	1.00E-04	3.36E-05	4.79E-06	1.78E-06
671	416820	4818400	5.65E-05	2.56E-05	9.59E-06	3.82E-06	3.51E-07	1.59E-07	7.96E-05	4.74E-05	1.78E-05	5.96E-06	4.88E-07	2.28E-07	3.27E-04	1.61E-04	6.41E-05	2.15E-05	2.72E-06	1.01E-06	2.08E-04	8.74E-05	5.03E-05	1.68E-05	1.67E-06	7.71E-07	3.13E-04	2.54E-04	9.53E-05	9.13E-06	4.21E-06	1.56E-06
672	416860	4818400	5.99E-05	3.75E-05	1.44E-05	6.66E-06	9.37E-07	4.19E-07	1.20E-04	6.23E-05	3.62E-05	1.08E-05	1.44E-06	7.04E-07	7.24E-05	4.18E-05	1.56E-05	5.20E-06	5.85E-07	1.99E-07	6.15E-05	2.08E-05	1.49E-05	6.90E-06	7.34E-07	1.79E-07	8.02E-05	5.04E-05	1.89E-05	6.30E-06	6.33E-07	2.16E-07
673	416900	4818400	7.85E-05	4.35E-05	1.65E-05	6.81E-06	9.59E-07	4.75E-07	1.38E-04	7.10E-05	3.10E-05	1.08E-05	1.70E-06	8.14E-07	7.35E-05	4.41E-05	1.66E-05	5.52E-06	6.35E-07	2.14E-07	6.58E-05	2.27E-05	1.63E-05	7.47E-06	7.91E-07	8.93E-07	8.53E-05	4.73E-05	2.01E-05	6.37E-06	6.80E-07	2.31E-07
674	414500	4818400	9.46E-05	4.35E-05	1.73E-05	8.27E-06	1.11E-05	5.36E-07	9.75E-04	7.40E-05	3.39E-05	1.28E-05	1.93E-06	9.48E-07	8.24E-05	4.98E-05	2.43E-05	6.89E-06	2.45E-06	7.75E-05	2.94E-05	1.75E-05	8.39E-07	2.75E-07	9.00E-07	5.62E-05	5.20E-05	2.18E-05	7.02E-06	2.18E-07	4.33E-07	
675	414540	4818400	8.72E-05	4.39E-05	1.97E-05	7.35E-06	1.37E-06	5.89E-07	1.46E-04	6.89E-05	3.40E-05	1.47E-05	2.44E-06																			

[illegible]

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	Annual	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
838	416180	4818520	5.66E-05	2.84E-05	1.21E-05	4.02E-06	5.49E-07	2.32E-07	1.24E-04	6.96E-05	2.61E-05	8.72E-06	9.27E-07	4.26E-07	6.80E-04	3.40E-04	1.82E-04	1.09E-04	2.96E-05	1.50E-05	4.61E-04	1.65E-04	9.01E-05	4.27E-05	1.45E-05	6.32E-06	1.13E-03	6.12E-04	3.61E-04	1.34E-04	2.27E-05	1.16E-05						
839	416220	4818520	6.30E-05	2.62E-05	1.04E-05	3.92E-06	5.39E-07	2.23E-07	1.14E-04	6.53E-05	2.49E-05	8.30E-06	8.57E-07	4.00E-07	1.26E-03	6.85E-04	3.93E-04	2.35E-04	1.03E-04	4.51E-05	3.28E-04	2.11E-04	9.33E-05	6.95E-05	2.21E-05	8.80E-06	1.68E-03	8.71E-04	4.72E-04	2.72E-04	4.86E-05	2.36E-05						
840	416260	4818520	6.90E-05	2.48E-05	9.37E-06	3.69E-06	5.28E-07	2.16E-07	1.11E-04	6.53E-05	2.56E-05	8.55E-06	7.93E-07	3.80E-07	1.06E-03	6.84E-04	5.54E-04	2.67E-04	1.03E-04	4.24E-05	3.83E-04	2.51E-04	1.19E-04	7.08E-05	3.09E-05	1.22E-05	1.74E-03	7.79E-04	4.17E-04	2.31E-04	4.12E-05	2.43E-05						
841	416300	4818520	7.31E-05	2.68E-05	1.09E-05	4.79E-06	4.99E-07	2.09E-07	1.05E-04	5.36E-05	2.48E-05	8.27E-06	8.19E-07	3.62E-07	1.20E-03	5.25E-04	2.92E-04	1.32E-04	3.24E-05	1.61E-05	4.12E-04	2.16E-04	1.37E-04	8.61E-05	3.33E-05	1.47E-05	2.22E-03	1.24E-03	5.54E-04	2.23E-04	1.19E-05							
842	416340	4818520	7.03E-05	3.23E-05	1.21E-05	4.74E-06	4.81E-07	2.01E-07	1.06E-04	5.28E-05	2.39E-05	7.62E-06	8.37E-07	3.42E-07	1.16E-04	3.69E-04	1.72E-04	1.05E-04	1.75E-05	1.56E-05	7.61E-06	3.96E-04	2.13E-04	1.53E-04	7.46E-05	2.81E-05	1.41E-05	1.86E-03	9.62E-04	4.86E-04	2.45E-04	7.76E-05	3.82E-05					
843	416380	4818520	7.03E-05	3.76E-05	1.41E-05	4.79E-06	4.27E-07	1.96E-07	1.13E-04	4.87E-05	2.01E-05	6.69E-06	8.28E-07	3.23E-07	1.40E-03	3.86E-04	2.12E-04	1.05E-04	1.13E-05	4.75E-06	4.11E-04	1.94E-04	1.55E-04	7.92E-05	2.03E-05	1.05E-05	1.35E-03	6.69E-04	3.85E-04	1.28E-04	2.99E-05	1.33E-05						
844	416420	4818520	6.82E-05	4.03E-05	1.51E-05	5.09E-06	4.18E-07	1.91E-07	1.09E-04	4.29E-05	1.68E-05	5.94E-06	7.96E-07	3.07E-07	1.71E-04	3.42E-04	1.31E-04	5.12E-05	1.78E-06	4.43E-06	4.03E-04	1.95E-04	1.03E-04	5.02E-05	1.32E-05	6.47E-06	1.07E-03	6.04E-04	2.30E-04	8.75E-05	1.88E-05	7.73E-06						
845	416460	4818520	6.26E-05	4.05E-05	1.52E-05	5.11E-06	4.26E-07	1.91E-07	1.06E-04	3.84E-05	1.57E-05	5.70E-06	7.58E-07	3.01E-07	7.72E-04	3.29E-04	1.21E-04	4.63E-05	6.76E-06	2.45E-06	3.75E-04	1.70E-04	8.21E-05	3.60E-05	1.23E-05	4.01E-06	1.16E-03	5.08E-04	2.04E-04	7.55E-05	1.29E-05	5.43E-06						
846	416500	4818520	6.31E-05	3.83E-05	1.44E-05	4.84E-06	4.22E-07	1.93E-07	1.04E-04	4.06E-05	1.65E-05	6.21E-06	7.09E-07	2.98E-07	6.84E-04	2.78E-04	1.03E-04	4.66E-05	6.15E-06	2.28E-06	4.26E-04	1.50E-04	6.89E-05	2.58E-05	6.12E-06	2.67E-06	7.92E-04	4.72E-04	1.77E-04	6.60E-05	1.02E-05	4.10E-06						
847	416540	4818520	6.48E-05	3.41E-05	1.25E-05	4.71E-06	4.08E-07	1.91E-07	9.72E-05	5.06E-05	1.90E-05	6.38E-06	6.47E-07	2.88E-07	5.49E-04	3.01E-04	1.13E-04	3.81E-05	5.00E-06	1.53E-06	3.14E-04	1.49E-04	5.61E-05	2.04E-05	4.15E-06	1.93E-06	6.95E-04	4.40E-04	1.65E-04	5.89E-05	7.96E-06	3.29E-06						
848	416580	4818520	6.50E-05	2.93E-05	1.10E-05	4.47E-06	4.07E-07	1.88E-07	9.40E-05	5.33E-05	2.08E-05	6.97E-06	5.90E-07	2.78E-07	5.50E-04	2.94E-04	1.07E-04	3.58E-05	3.80E-06	1.66E-06	2.71E-04	1.20E-04	5.16E-05	1.80E-05	3.04E-06	1.52E-06	5.92E-04	3.36E-04	1.58E-04	5.83E-05	6.62E-06	2.76E-06						
849	416620	4818520	6.48E-05	2.85E-05	1.11E-05	4.72E-06	4.15E-07	1.82E-07	9.18E-05	5.69E-05	2.14E-05	7.16E-06	5.79E-07	2.69E-07	4.71E-04	2.27E-04	1.08E-04	3.65E-05	3.03E-06	1.49E-06	2.45E-04	1.16E-04	6.25E-05	2.08E-05	2.64E-06	1.27E-06	5.21E-04	2.66E-04	1.40E-04	5.25E-05	5.99E-06	2.40E-06						
850	416660	4818520	6.19E-05	2.63E-05	1.13E-05	3.76E-06	4.22E-07	1.76E-07	8.81E-05	5.59E-05	2.10E-05	7.03E-06	5.74E-07	2.60E-07	4.58E-04	1.79E-04	1.05E-04	3.64E-05	2.84E-06	1.25E-06	2.58E-04	1.11E-04	6.57E-05	2.19E-05	2.29E-06	1.08E-06	4.34E-04	2.36E-04	1.21E-04	4.62E-05	5.58E-06	2.14E-06						
851	416700	4818520	5.71E-05	2.40E-05	1.11E-05	3.68E-06	4.24E-07	1.72E-07	8.63E-05	5.27E-05	1.98E-05	6.66E-06	5.58E-07	2.53E-07	4.27E-04	1.61E-04	9.87E-05	3.39E-05	2.75E-06	1.17E-06	2.61E-04	1.02E-04	5.19E-05	1.73E-05	2.17E-06	9.68E-07	3.90E-04	2.13E-04	1.04E-04	4.06E-05	5.20E-06	1.93E-06						
852	416740	4818520	5.38E-05	2.17E-05	1.05E-05	3.50E-06	4.19E-07	1.66E-07	8.72E-05	4.81E-05	1.80E-05	6.48E-06	5.33E-07	2.46E-07	3.73E-04	1.44E-04	8.92E-05	3.01E-05	2.75E-06	1.07E-06	2.29E-04	1.06E-04	3.98E-05	1.57E-05	1.91E-06	8.78E-07	3.79E-04	1.95E-04	1.09E-04	4.78E-05	1.76E-06							
853	416780	4818520	5.49E-05	2.16E-05	1.06E-05	3.68E-06	4.14E-07	1.62E-07	8.59E-05	4.29E-05	1.61E-05	3.88E-06	5.33E-07	2.40E-07	3.29E-04	1.25E-04	7.65E-05	2.56E-05	2.64E-06	9.90E-07	2.32E-04	1.15E-04	4.36E-05	1.59E-05	1.70E-06	8.08E-07	3.59E-04	1.77E-04	1.01E-04	3.44E-05	1.59E-06							
854	416820	4818520	5.46E-05	1.13E-05	6.82E-06	3.75E-06	4.07E-07	1.59E-07	8.58E-05	3.76E-05	1.41E-05	5.78E-06	9.51E-07	2.36E-07	3.54E-04	1.14E-04	6.29E-05	2.54E-05	2.53E-06	9.06E-07	2.41E-04	1.06E-04	4.20E-05	1.56E-05	1.62E-06	1.58E-07	3.33E-04	1.58E-04	6.58E-05	3.14E-05	3.91E-06	4.33E-06						
855	416860	4818520	7.87E-05	4.69E-05	1.76E-05	5.90E-06	9.03E-07	3.91E-07	1.63E-04	7.89E-05	2.99E-05	1.16E-05	1.45E-06	6.78E-07	7.04E-04	4.12E-04	1.73E-04	5.94E-06	5.46E-07	2.04E-07	6.07E-05	2.99E-05	1.12E-05	5.16E-06	5.87E-07	1.75E-07	8.26E-07	4.72E-05	1.93E-05	7.49E-06	6.03E-07	2.20E-07						
856	416900	4818520	9.06E-05	4.98E-05	1.87E-05	6.29E-06	1.00E-06	4.27E-07	1.64E-04	8.01E-05	3.04E-05	1.17E-05	1.52E-06	7.36E-07	7.77E-04	5.67E-04	1.79E-05	6.09E-06	6.62E-07	2.12E-07	6.22E-05	2.98E-05	1.12E-05	5.44E-06	6.15E-07	1.81E-07	8.53E-05	4.89E-05	1.99E-05	7.74E-06	6.25E-07	2.28E-07						
857	414500	4818560	1.07E-04	4.47E-05	1.72E-05	6.65E-06	1.15E-06	4.78E-07	1.58E-04	8.34E-05	3.13E-05	1.38E-05	1.74E-06	8.40E-07	8.27E-05	4.08E-05	1.90E-05	6.45E-06	6.02E-07	2.25E-07	6.68E-05	3.07E-05	1.15E-05	5.90E-06	6.63E-07	1.93E-07	9.03E-05	5.21E-05	1.02E-05	8.18E-06	6.63E-07	2.42E-07						
858	414540	4818560	1.02E-04	4.40E-05	1.65E-05	4.87E-06	1.13E-06	5.10E-07	1.48E-04	7.80E-05	3.32E-05	1.29E-05	1.83E-06	8.88E-07	8.13E-05	5.02E-05	1.87E-05	6.32E-06	6.00E-07	2.24E-07	6.57E-05	2.90E-05	1.09E-05	5.96E-06	6.68E-07	1.91E-07	8.97E-05	5.19E-05	1.21E-05	8.16E-06	6.66E-07	2.43E-07						
859	414580	4818560	9.81E-05	4.81E-05	1.82E-05	6.45E-06	1.10E-06	5.56E-07	1.75E-04	8.05E-05	3.06E-05	1.30E-05	2.07E-06	3.35E-07	7.87E-04	4.90E-05	1.84E-05	6.17E-06	5.94E-07	2.27E-07	6.83E-05	2.73E-05	1.04E-05	5.78E-06	6.69E-07	8.96E-07	9.07E-05	5.26E-05	1.12E-05	2.08E-06	8.04E-06	6.61E-07	2.41E-07					
860	414620	4818560	9.80E-05	4.92E-05	2.15E-05	8.04E-06	1.12E-06	6.31E-07	1.51E-04	8.99E-05	3.48E-05	1.48E-05	2.53E-06	1.04E-06	8.18E-05	5.02E-05	1.88E-05	6.12E-07	2.28E-07	6.59E-05	2.68E-05	1.11E-05	6.25E-06	6.97E-07	9.21E-07	9.07E-05	5.19E-05	1.25E-05	2.16E-06	8.25E-06	6.82E-07	4.49E-07						
861	414660	4818560	1.08E-04	4.97E-05	2.17E-05	9.56E-06	1.78E-06	7.20E-07	1.64E-04	7.85E-05	3.16E-05	1.64E-05	2.83E-06	1.15E-06	8.41E-05	5.15E-05	1.93E-05	6.44E-06	6.32E-07	2.35E-07	6.76E-05	2.62E-05	1.20E-05	6.55E-06	7.27E-07	2.00E-07	9.27E-05	5.43E-05	2.19E-05	8.48E-06	7.06E-07	2.58E-07						
862	414700	4818560	1.12E-04	5.64E-05	2.22E-05	9.48E-06	2.14E-06	8.51E-07	1.97E-04	9.67E-05	3.48E-05	1.93E-05	3.10E-06	1.35E-06	9.30E-05	5.68E-05	2.13E-05	7.10E-06	6.97E-07	7.42E-07	2.74E-05	1.38E-05	7.36E-06	8.10E-07	2.19E-07	1.02E-06	6.00E-05	2.49E-05	9.30E-06	7.76E-07	2.83E-07							
863	414740	4818560	1.21E-04	5.70E-05	2.64E-05	1.18E-05	2.24E-06	9.68E-07	2.06E-04	1.35E-04	5.08E-05	2.24E-05	3.21E-06	1.58E-06	1.03E-04	6.28E-05	2.35E-05	7.85E-06	7.65E-07	2.84E-07	8.19E-05	2.88E-05	1.58E-05	8.24E-06	8.89E-07	2.41E-07	1.11E-04	6.55E-05	2.58E-05	1.01E-05	8.42E-07	3.07E-07						
864	414780	4818560	1.18E-04	7.29E-05	2.76E-05	1.23E-05	2.16E-06	1.04E-06	2.15E-04	1.14E-04	4.35E-05	2.12E-05	3.59E-06	1.63E-06	1.02E-04	6.71E-05	2.31E-05	7.72E-06	7.63E-07	2.92E-07	7.92E-05	2.84E-05	1.63E-05	8.27E-06	9.03E-07	2.38E-07	1.10E-04	6.54E-05	2.59E-05	1.01E-05	8.49E-07	3.10E-07						
865	414820	4818560	1.15E-04	7.15E-05	2.71E-05	1.21E-05	2.01E-06	1.01E-06	2.10E-04	1.11E-04	4.30E-05	2.10E-05	3.59E-06	1.63E-06	1.01E-04	6.71E-05	2.31E-05	7.72E-06	7.63E-07	2.92E-07	7.92E-05	2.84E-05	1.63E-05	8.27E-06	9.03E-07	2.38E-07	1.10E-04	6.54E-05	2.59E-05	1.01E-05	8.49E-07	3.10E-07						
866	414860	4818560	1.25E-04	6.18E-0																																		

AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting	Northing	m	m	EIL				ESL				IEDF				IRC				RESL														
					1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual							
1024	416300	4818640			7.67E-05	4.44E-05	1.67E-05	5.62E-06	4.84E-07	2.23E-07	1.30E-04	4.54E-05	1.78E-05	6.84E-06	9.01E-07	3.51E-07	1.26E-03	5.38E-04	2.54E-04	1.44E-04	2.33E-05	1.22E-05	6.45E-04	3.03E-04	1.97E-04	1.39E-04	6.12E-05	2.94E-05	3.57E-03	1.35E-03	6.66E-04	3.45E-04	1.03E-04	6.07E-05	
1025	416340	4818640			7.74E-05	3.83E-05	1.43E-05	5.39E-06	4.82E-07	2.21E-07	1.24E-04	5.69E-05	2.13E-05	7.36E-06	8.18E-07	3.43E-07	1.17E-03	4.62E-04	2.12E-04	9.26E-05	1.52E-05	7.80E-06	5.82E-04	2.95E-04	2.58E-04	1.38E-04	4.22E-05	2.27E-05	1.77E-03	8.88E-04	4.78E-04	2.29E-04	6.95E-05	3.48E-05	
1026	416380	4818640			7.68E-05	3.39E-05	1.27E-05	4.97E-06	5.02E-07	2.16E-07	1.16E-04	6.62E-05	2.43E-05	8.34E-06	7.31E-07	3.32E-07	1.47E-04	4.60E-04	1.70E-04	7.12E-05	1.09E-05	5.28E-06	5.40E-04	2.78E-04	1.53E-04	7.82E-05	2.21E-05	1.16E-05	1.42E-03	6.88E-04	4.02E-04	1.88E-04	3.70E-05	1.81E-05	
1027	416420	4818640			7.44E-05	3.19E-05	1.33E-05	4.44E-06	5.18E-07	2.12E-07	1.13E-04	7.02E-05	2.63E-05	8.82E-06	7.06E-07	3.25E-07	1.74E-04	3.51E-04	1.32E-04	5.43E-05	8.18E-06	3.77E-06	5.90E-04	2.30E-04	1.19E-04	4.85E-05	1.18E-05	5.63E-06	1.18E-03	5.45E-04	2.93E-04	1.45E-04	1.92E-05	9.99E-06	
1028	416460	4818640			7.03E-05	2.81E-05	1.31E-05	4.38E-06	5.20E-07	2.05E-07	1.07E-04	6.90E-05	2.59E-05	8.68E-06	7.01E-07	3.16E-07	6.38E-04	3.03E-04	1.14E-04	4.33E-05	6.45E-06	2.87E-06	3.70E-04	1.54E-04	8.86E-05	3.30E-05	6.85E-06	1.38E-05	3.29E-06	1.04E-03	4.78E-04	2.10E-04	1.12E-04	1.19E-05	6.44E-06
1029	416500	4818640			6.88E-05	2.50E-05	1.23E-05	4.11E-06	5.11E-07	1.98E-07	1.07E-04	6.39E-05	2.40E-05	8.04E-06	6.75E-07	3.08E-07	5.80E-04	2.77E-04	1.04E-04	3.69E-05	5.29E-06	2.28E-06	3.36E-04	1.64E-04	9.29E-05	3.10E-05	5.17E-06	2.30E-06	8.19E-04	4.53E-04	1.73E-04	1.12E-04	9.40E-06	4.72E-06	
1030	416540	4818640			6.50E-05	2.43E-05	1.10E-05	4.22E-06	4.95E-07	1.88E-07	1.07E-04	5.62E-05	2.11E-05	7.39E-06	6.29E-07	2.92E-07	5.44E-04	2.60E-04	9.76E-05	3.42E-05	4.62E-06	1.95E-06	3.45E-04	1.41E-04	7.00E-05	2.33E-05	4.05E-06	1.76E-06	6.63E-04	4.11E-04	1.57E-04	9.84E-05	7.99E-06	3.83E-06	
1031	416580	4818640			6.43E-05	2.52E-05	9.47E-06	4.45E-06	4.79E-07	1.85E-07	1.07E-04	4.81E-05	1.81E-05	7.00E-06	6.53E-07	2.91E-07	5.01E-04	2.39E-04	8.96E-05	3.11E-05	3.96E-06	1.67E-06	3.11E-04	1.46E-04	5.47E-05	2.09E-05	3.26E-06	1.45E-06	5.58E-04	3.55E-04	1.33E-05	8.05E-06	6.62E-06	3.10E-06	
1032	416620	4818640			6.12E-05	2.59E-05	9.70E-06	4.50E-06	4.60E-07	1.80E-07	1.05E-04	4.33E-05	1.72E-05	6.45E-06	6.70E-07	2.85E-07	4.68E-04	2.21E-04	8.30E-05	2.86E-05	3.50E-06	1.45E-06	3.61E-04	1.41E-04	5.31E-05	1.96E-05	3.05E-06	1.24E-06	4.88E-04	3.12E-04	1.18E-04	6.76E-05	5.69E-06	2.67E-06	
1033	416660	4818640			5.67E-05	2.76E-05	1.04E-05	4.44E-06	4.37E-07	1.74E-07	9.91E-05	4.03E-05	1.71E-05	5.77E-06	6.69E-07	2.75E-07	4.39E-04	2.06E-04	7.72E-05	2.64E-05	3.13E-06	3.13E-04	3.43E-04	1.26E-04	4.71E-05	2.18E-05	2.93E-06	1.11E-06	4.39E-04	2.78E-04	1.05E-04	6.02E-05	5.11E-06	2.38E-06	
1034	416700	4818640			5.27E-05	2.86E-05	1.07E-05	4.29E-06	4.12E-07	1.68E-07	9.06E-05	3.67E-05	1.68E-05	5.52E-06	6.60E-07	2.65E-07	4.10E-04	1.91E-04	7.17E-05	2.44E-05	2.83E-06	1.18E-06	2.67E-04	1.22E-04	4.57E-05	2.05E-05	2.62E-06	9.90E-07	3.95E-04	2.48E-04	9.42E-05	5.38E-05	4.59E-06	2.13E-06	
1035	416740	4818640			5.04E-05	2.89E-05	1.08E-05	4.12E-06	3.83E-07	1.62E-07	8.14E-05	3.34E-05	1.56E-05	5.24E-06	6.42E-07	2.54E-07	3.85E-04	1.78E-04	6.69E-05	2.27E-05	2.58E-06	1.09E-06	2.36E-04	1.34E-04	5.04E-05	1.70E-05	2.20E-06	8.87E-07	3.69E-04	2.22E-04	8.72E-05	4.98E-05	4.24E-06	1.94E-06	
1036	416780	4818640			4.75E-05	2.88E-05	1.08E-05	3.95E-06	3.56E-07	1.56E-07	8.11E-05	3.21E-05	1.44E-05	5.30E-06	6.25E-07	2.45E-07	3.59E-04	1.68E-04	6.23E-05	2.11E-05	2.37E-06	1.02E-06	2.36E-04	1.27E-04	4.77E-05	1.60E-05	1.85E-06	8.08E-07	3.48E-04	2.03E-04	8.20E-05	4.62E-05	3.90E-06	1.76E-06	
1037	416820	4818640			4.43E-05	2.83E-05	1.08E-05	3.75E-06	3.33E-07	1.51E-07	7.98E-05	3.45E-05	1.30E-05	5.42E-06	6.06E-07	2.36E-07	3.34E-04	1.55E-04	1.98E-05	1.98E-05	2.18E-06	9.52E-07	2.14E-04	1.12E-04	4.46E-05	1.50E-05	1.60E-06	7.46E-07	3.29E-04	1.85E-04	7.68E-05	4.25E-05	3.57E-06	1.59E-06	
1038	416860	4818640			7.94E-05	4.13E-05	1.98E-05	6.54E-06	9.05E-07	3.77E-07	1.62E-04	7.93E-05	2.97E-05	1.06E-05	1.18E-06	6.61E-07	8.21E-05	3.13E-05	1.86E-05	8.14E-06	6.71E-07	2.11E-07	6.90E-05	4.28E-05	1.60E-05	5.34E-06	5.17E-07	1.85E-07	9.18E-05	3.06E-05	9.52E-06	7.21E-07	2.24E-07		
1039	416900	4818640			8.05E-05	3.73E-05	1.78E-05	5.99E-06	8.76E-07	3.91E-07	1.71E-04	8.46E-05	3.23E-05	1.16E-05	1.41E-06	7.17E-07	8.35E-05	3.17E-05	1.90E-05	8.28E-06	6.86E-07	2.17E-07	6.97E-05	4.30E-05	1.61E-05	5.38E-06	5.32E-07	1.89E-07	9.38E-03	3.12E-05	2.09E-05	9.75E-07	7.40E-07	2.30E-07	
1040	414500	4818680			8.49E-05	4.67E-05	1.85E-05	6.35E-06	9.09E-07	4.26E-07	1.77E-04	9.41E-05	3.59E-05	1.40E-05	1.66E-06	7.70E-07	8.42E-05	3.21E-05	1.92E-05	8.36E-06	6.97E-07	2.20E-07	6.98E-05	4.29E-05	1.61E-05	5.36E-06	5.31E-07	1.91E-07	9.49E-03	3.16E-05	2.12E-05	9.94E-06	7.56E-07	2.33E-07	
1041	414540	4818680			9.00E-05	5.34E-05	2.00E-05	6.73E-06	1.07E-06	4.58E-07	1.94E-04	9.19E-05	3.50E-05	1.33E-05	1.80E-06	8.07E-07	8.31E-05	3.17E-05	1.90E-05	8.25E-06	6.90E-07	2.19E-07	6.79E-05	4.16E-05	1.56E-05	5.20E-06	5.23E-07	1.89E-07	9.38E-03	3.13E-05	2.17E-05	9.92E-07	7.57E-07	2.36E-07	
1042	414580	4818680			1.01E-04	5.61E-05	2.11E-05	7.09E-06	1.24E-06	5.03E-07	1.75E-04	8.78E-05	3.34E-05	1.38E-05	1.79E-06	8.46E-07	8.18E-05	3.13E-05	1.88E-05	8.15E-06	6.83E-07	2.18E-07	6.64E-05	4.05E-05	1.52E-05	5.06E-06	5.21E-07	1.87E-07	9.23E-03	3.08E-05	2.08E-05	9.67E-07	7.53E-07	2.36E-07	
1043	414620	4818680			1.18E-04	5.14E-05	2.00E-05	6.48E-06	1.37E-06	5.63E-07	1.60E-04	8.18E-05	3.32E-05	1.44E-05	1.97E-06	9.43E-07	8.40E-05	3.12E-05	1.92E-05	8.35E-06	7.03E-07	2.24E-07	6.75E-05	4.10E-05	1.54E-05	5.12E-06	5.16E-07	1.92E-07	9.46E-03	3.15E-05	2.13E-05	1.02E-05	7.77E-07	2.44E-07	
1044	414660	4818680			1.00E-04	5.32E-05	2.00E-05	1.11E-05	1.38E-06	6.28E-07	1.80E-04	8.53E-05	3.90E-05	1.51E-05	2.27E-06	1.07E-06	8.63E-05	3.30E-05	1.98E-05	8.56E-06	7.24E-07	2.32E-07	6.85E-05	4.14E-05	1.55E-05	5.17E-06	5.57E-07	1.97E-07	9.71E-03	3.24E-05	2.19E-05	1.05E-05	8.02E-07	2.53E-07	
1045	414700	4818680			1.25E-04	5.92E-05	2.35E-05	1.09E-05	1.63E-06	7.61E-07	1.95E-04	1.13E-04	4.40E-05	1.92E-05	3.20E-06	1.33E-06	9.58E-05	3.65E-05	2.18E-05	9.41E-06	8.02E-07	2.36E-07	7.53E-05	4.51E-05	1.69E-05	5.85E-06	6.19E-07	1.77E-07	1.03E-04	3.88E-05	2.41E-05	1.15E-05	8.85E-07	2.78E-07	
1046	414740	4818680			1.32E-04	5.97E-05	2.28E-05	1.27E-05	2.27E-06	9.25E-07	2.24E-04	0.08E-04	4.57E-05	2.01E-05	1.57E-06	1.57E-06	9.25E-05	4.18E-05	2.39E-05	1.27E-06	9.83E-06	2.58E-07	6.93E-05	4.20E-05	1.60E-05	5.72E-06	6.20E-07	1.72E-07	1.04E-04	4.06E-05	2.72E-05	1.29E-05</			

Appendix E

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
1210	164240	4818760	6.60E-05	3.30E-05	1.24E-05	5.11E-06	5.04E-07	2.03E-07	1.28E-04	5.00E-05	2.17E-05	7.25E-06	7.92E-07	3.38E-07	6.52E-04	3.06E-04	1.38E-04	5.64E-05	1.40E-05	6.57E-06	6.73E-04	3.17E-04	1.20E-04	5.11E-05	1.07E-05	4.55E-06	8.06E-04	4.08E-04	2.30E-04	1.31E-04	4.13E-05	2.72E-05					
1211	164640	4818760	6.27E-05	3.35E-05	1.26E-05	4.87E-06	4.60E-07	1.95E-07	1.15E-04	4.43E-05	2.10E-05	6.98E-06	7.82E-07	3.25E-07	6.23E-04	2.81E-04	1.14E-04	4.29E-05	1.40E-05	4.68E-06	4.52E-04	2.57E-04	1.03E-04	4.48E-05	7.13E-06	3.15E-06	7.73E-04	3.94E-04	2.04E-04	8.79E-05	2.66E-05	1.64E-05					
1212	165040	4818760	5.75E-05	3.31E-05	1.24E-05	4.56E-06	4.16E-07	1.87E-07	1.01E-04	4.32E-05	1.93E-05	6.43E-06	7.81E-07	3.12E-07	6.22E-04	2.50E-04	8.98E-05	3.95E-05	7.55E-06	3.49E-04	3.72E-04	1.92E-04	9.95E-05	4.38E-05	5.30E-06	3.23E-06	6.69E-04	3.66E-04	1.62E-04	7.50E-05	1.76E-05	1.05E-05					
1213	165440	4818760	5.73E-05	3.23E-05	1.21E-05	4.24E-06	3.80E-07	1.81E-07	9.48E-05	3.90E-05	1.73E-05	6.42E-06	7.40E-07	3.00E-07	4.55E-04	2.19E-04	1.00E-04	4.05E-05	5.44E-06	3.40E-05	3.71E-04	1.51E-04	8.52E-05	3.40E-05	4.22E-06	1.80E-06	6.40E-04	3.11E-04	1.46E-04	5.78E-05	1.43E-05	7.34E-06					
1214	165840	4818760	5.82E-05	3.12E-05	1.17E-05	3.94E-06	3.50E-07	1.74E-07	9.24E-05	4.19E-05	1.57E-05	6.52E-06	7.12E-07	2.88E-07	4.81E-04	1.88E-04	1.03E-04	4.05E-05	4.51E-06	2.29E-06	3.49E-04	1.26E-04	6.87E-05	2.88E-05	3.59E-06	1.47E-06	5.71E-04	3.11E-04	1.23E-04	4.44E-05	1.18E-05	5.60E-06					
1215	166240	4818760	5.74E-05	2.99E-05	1.12E-05	3.74E-06	3.39E-07	1.69E-07	8.89E-05	4.41E-05	1.65E-05	6.52E-06	6.82E-07	2.76E-07	4.72E-04	1.79E-04	1.02E-04	3.85E-05	3.77E-06	1.96E-06	3.10E-04	1.06E-04	4.95E-05	2.37E-05	3.20E-06	1.24E-06	5.20E-04	2.71E-04	1.17E-04	5.02E-05	9.26E-06	4.37E-06					
1216	166640	4818760	5.54E-05	2.86E-05	1.07E-05	3.58E-06	3.42E-07	1.63E-07	8.42E-05	4.58E-05	1.72E-05	6.41E-06	6.53E-07	2.66E-07	4.23E-04	1.83E-04	9.62E-05	3.39E-05	3.32E-06	1.71E-06	2.67E-04	9.01E-05	4.03E-05	2.03E-05	2.84E-06	1.07E-06	4.16E-04	2.15E-04	1.07E-04	4.40E-05	7.30E-06	3.51E-06					
1217	167040	4818760	5.54E-05	2.76E-05	1.03E-05	3.61E-06	3.42E-07	1.59E-07	7.94E-05	4.70E-05	1.76E-05	6.24E-06	6.25E-07	2.57E-07	4.17E-04	1.71E-04	9.38E-05	3.13E-05	3.20E-06	1.50E-06	2.39E-04	8.84E-05	3.71E-05	1.77E-05	2.55E-06	9.49E-07	3.80E-04	1.92E-04	1.06E-04	4.23E-05	5.89E-06	2.91E-06					
1218	167440	4818760	5.51E-05	2.62E-05	9.82E-06	3.69E-06	3.37E-07	1.53E-07	7.41E-05	4.72E-05	1.77E-05	6.01E-06	5.88E-07	2.48E-07	3.83E-04	1.52E-04	1.36E-05	2.91E-05	2.70E-06	1.36E-06	2.38E-04	8.57E-05	3.37E-05	1.50E-05	2.30E-06	8.60E-07	3.61E-04	1.77E-04	1.12E-04	4.15E-05	4.97E-06	2.51E-06					
1219	167840	4818760	5.48E-05	2.44E-05	9.14E-06	3.68E-06	3.25E-07	1.45E-07	7.04E-05	4.63E-05	1.73E-05	5.79E-06	5.39E-07	2.31E-07	3.82E-04	1.27E-04	7.93E-05	2.78E-05	2.66E-06	1.27E-06	2.37E-04	8.23E-05	3.13E-05	2.07E-06	8.10E-07	3.64E-04	1.77E-04	1.12E-04	4.12E-05	4.82E-06	2.25E-06						
1220	168240	4818760	5.21E-05	2.36E-05	9.00E-06	3.66E-06	3.12E-07	1.38E-07	6.89E-05	4.51E-05	1.69E-05	5.64E-06	4.95E-07	2.19E-07	3.73E-04	1.24E-04	6.87E-05	2.99E-05	2.54E-06	1.15E-06	2.28E-04	7.64E-05	2.94E-05	1.23E-05	1.87E-06	7.44E-07	3.50E-04	1.75E-04	1.06E-04	3.85E-05	4.45E-06	1.97E-06					
1221	168640	4818760	8.73E-05	3.94E-05	1.84E-05	6.27E-06	8.94E-07	3.40E-07	1.80E-04	1.02E-04	4.23E-05	1.42E-05	1.51E-06	6.48E-07	8.09E-05	2.72E-05	1.72E-05	8.66E-06	6.97E-07	2.08E-07	7.00E-05	3.56E-05	1.70E-05	6.53E-06	5.31E-07	1.85E-07	9.04E-05	3.01E-05	1.82E-05	9.68E-06	7.04E-07	2.21E-07					
1222	169040	4818760	9.34E-05	4.21E-05	1.91E-05	6.57E-06	9.87E-07	3.68E-07	1.73E-04	8.58E-05	3.54E-05	1.18E-05	1.52E-06	6.70E-07	8.17E-05	2.75E-05	1.75E-05	8.78E-06	7.09E-07	2.13E-07	7.04E-05	3.80E-05	1.73E-05	6.58E-06	5.38E-07	1.88E-07	9.21E-05	3.07E-05	1.87E-05	9.86E-06	7.17E-07	2.27E-07					
1223	145500	4818800	9.36E-05	5.29E-05	2.44E-05	8.20E-06	1.06E-06	4.02E-07	1.72E-04	8.35E-05	3.12E-05	1.04E-05	1.49E-06	6.95E-07	8.20E-05	2.78E-05	1.77E-05	8.83E-06	7.16E-07	2.15E-07	7.05E-05	3.60E-05	1.74E-05	6.59E-06	5.41E-07	1.90E-07	9.32E-05	3.11E-05	1.91E-05	9.98E-06	7.27E-07	2.32E-07					
1224	145450	4818800	9.15E-05	5.21E-05	2.37E-05	7.96E-06	1.06E-06	4.26E-07	1.67E-04	8.21E-05	3.13E-05	1.10E-05	1.36E-06	7.18E-07	8.10E-05	2.71E-05	1.76E-05	8.71E-06	7.07E-07	2.15E-07	6.89E-05	3.53E-05	1.71E-05	6.46E-06	5.33E-07	1.88E-07	9.24E-05	3.08E-05	1.91E-05	9.94E-06	7.23E-07	2.33E-07					
1225	145480	4818800	8.63E-05	4.32E-05	2.01E-05	6.89E-06	1.06E-06	4.47E-07	1.79E-04	9.05E-05	3.34E-05	1.21E-05	1.54E-06	7.60E-07	8.02E-05	2.67E-05	1.73E-05	8.58E-06	6.96E-07	2.13E-07	6.73E-05	3.46E-05	1.68E-05	6.34E-06	5.05E-07	9.05E-07	9.38E-05	1.90E-05	9.83E-06	7.14E-07	2.33E-07						
1226	145620	4818800	8.74E-05	4.41E-05	2.09E-05	7.06E-06	1.02E-06	4.89E-07	1.90E-04	9.99E-05	3.83E-05	1.48E-05	1.93E-06	8.51E-07	8.27E-05	2.78E-05	1.78E-05	8.78E-06	7.12E-07	2.20E-07	6.85E-05	3.53E-05	1.72E-05	6.48E-06	5.36E-07	1.94E-07	9.30E-05	3.10E-05	1.92E-05	1.01E-05	7.30E-07	2.40E-07					
1227	145680	4818800	9.82E-05	5.91E-05	2.22E-05	7.45E-06	1.13E-06	5.56E-07	2.17E-04	1.04E-04	3.99E-05	1.47E-05	2.23E-06	9.50E-07	8.54E-05	2.85E-05	1.83E-05	8.95E-06	7.30E-07	2.27E-07	6.97E-05	3.61E-05	1.76E-05	6.58E-06	5.48E-07	1.95E-07	9.51E-05	3.17E-05	2.02E-05	1.03E-05	7.48E-07	2.49E-07					
1228	145700	4818800	1.21E-04	6.77E-05	2.54E-05	8.57E-06	1.65E-06	6.55E-07	2.09E-04	1.11E-04	4.24E-05	1.86E-05	2.40E-06	1.14E-06	9.32E-05	3.11E-05	1.99E-05	9.60E-06	7.90E-07	2.47E-07	7.52E-05	3.89E-05	1.91E-05	7.05E-06	5.92E-07	2.12E-07	1.03E-04	3.44E-05	2.20E-05	1.10E-05	8.06E-07	2.70E-07					
1229	145740	4818800	1.44E-04	6.47E-05	2.54E-05	1.23E-05	1.90E-06	7.97E-07	2.31E-04	1.21E-04	5.32E-05	2.02E-05	2.97E-06	1.44E-06	1.11E-05	3.16E-05	2.31E-05	1.10E-05	9.10E-07	2.85E-07	8.86E-05	4.66E-05	2.22E-05	8.30E-06	6.94E-07	2.47E-07	1.17E-04	3.90E-05	2.48E-05	1.23E-05	8.99E-07	3.04E-07					
1230	145740	4818800	1.41E-04	6.57E-05	2.70E-05	1.40E-05	1.98E-06	9.30E-07	2.45E-04	1.38E-04	5.72E-05	2.19E-05	4.01E-06	1.68E-06	1.14E-05	3.81E-05	2.38E-05	1.12E-05	9.31E-07	2.95E-07	9.01E-05	4.74E-05	2.27E-05	7.10E-07	2.53E-07	1.20E-04	3.99E-05	2.56E-05	1.25E-05	9.21E-07	3.15E-07						
1231	145820	4818800	1.47E-04	6.97E-05	3.51E-05	1.64E-05	2.70E-06	1.14E-06	2.52E-04	1.45E-04	5.03E-05	2.78E-05	4.79E-06	1.94E-06	1.18E-05	3.93E-05	2.44E-05	1.14E-05	9.51E-07	3.04E-07	9.48E-05	4.81E-05	2.32E-05	5.54E-06	7.25E-07	2.80E-07	1.22E-04	4.07E-05	2.64E-05	1.28E-05	9.47E-07	3.27E-07					
1232	145880	4818800	1.54E-04	7.91E-05	3.24E-05	1.58E-05	2.34E-06	1.37E-06	1.67E-04	1.67E-04	6.75E-05	3.06E-05	4.80E-06	2.21E-06	1.20E-05	4.06E-05	2.46E-05	1.15E-05	9.87E-07	3.10E-07	9.12E-05	4.84E-05	2.27E-07	1.25E-06	1.49E-07	1.25E-06	4.16E-05	2.97E-05	1.89E-05	9.87E-07	3.27E-07						
1233	145900	4818800	1.51E-04	9.03E-05	3.41E-05	1.60E-05	3.41E-06	1.58E-06	2.94E-04	1.67E-04	6.34E-05	3.05E-05	5.23E-06	2.46E-06	1.24E-04	4.13E-05	2.58E-05	1.15E-05	9.76E-07	3.17E-07	9.13E-05	4.77E-05	2.35E-05	8.46E-06	7.36E-07	2.65E-07	1.28E-04	4.27E-05	2.75E-05	1.31E-05	1.02E-06	3.47E-07					
1234	145940	4818800	1.48E-04	7.93E-05	3.37E-05	1.53E-05	4.21E-06	1.84E-06	3.11E-04	1.55E-04	5.15E-05	2.58E-05	7.02E-06	2.75E-06	1.32E-04	4.06E-05	2.73E-05	1.19E-05	1.01E-06	3.33E-05	9.31E-05	4.97E-05	2.46E-05	8.78E-06	7.71E-07	2.76E-07	1.33E-04	4.58E-05	2.86E-05	1.35E-05	1.08E-06	3.65E-07					
1235	145940	4818800	1.86E-04	9.33E-05	3.98E-05	1.75E-05	3.39E-06	2.15E-06	3.35E-04	1.84E-04	7.66E-05	2.63E-05	7.74E-06	3.12E-06	1.41E-04	4.70E-05	2.89E-05	1.23E-05	1.05E-06	3.52E-07	9.95E-05	5.20E-05	2.57E-05	9.13E-06	8.10E-07	2.92E-07	1.39E-04	4.91E-05	2.99E-05	1.40E-05	1.14E-06	3.84E-07					
1236	145920	4818800	1.92E-04	8.49E-05	4.29E-05	1.88E-05	5.58E-06	2.60E-06	3.25E-04	1.54E-04	7.19E-05	3.11E-05	8.54E-06	3.60E-06	1.44E-04	4.81E-05	2.90E-05	1.20E-05	1.04E-06	3.52E-07	9.67E-05	4.89E-05	2.53E-05	8.80E-06	7.98E-07	2.88E-07	1.39E-04	5.08E-05	2.98E-05	1.39E-05	1.18E-06	3.90E-07					
1237	145960	4818800	1.97E-04	8.49E-05	4.29E-05	1.88E-05	5.58E-06	2.60E-06	3.25E-04	1.54E-04	7.19E-05	3.11E-05	8.54E-06	3.60E-06	1.44E-04	4.81E-05	2.90E-05	1.20E-05	1.04E-06	3.52E-07	9.67E-05	4.89E-05	2.53E-05	8.80E-06	7.98E-07	2.88E-07	1.39E-04	5.08E-05	2.98E-05	1.39E-05	1.18E-06	3.90E-07					
1238	145980	4818800	1.97E-04	8.49E-05																																	

ENGINEERING CALCULATIONS AND ANALYSIS AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL	1hr				Annual				ESL				IEDF				Monthly				IRC				RESL						
				3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual		
1303	415260	4818840	1.46E-04	1.07E-04	7.71E-05	3.41E-05	1.10E-05	5.92E-06	4.11E-04	1.83E-04	1.12E-04	6.47E-05	1.71E-05	9.14E-06	1.98E-04	6.61E-05	3.27E-05	1.09E-05	1.29E-06	4.26E-07	1.18E-04	4.77E-05	2.83E-05	1.15E-05	9.86E-07	1.15E-05	9.86E-07	1.15E-05	9.86E-07	1.15E-05	9.86E-07	1.15E-05	9.86E-07	
1304	415300	4818840	1.52E-04	9.51E-05	7.57E-05	3.27E-05	8.94E-06	4.60E-06	2.94E-04	1.94E-04	1.27E-04	6.06E-05	1.66E-05	9.18E-06	2.05E-04	6.63E-05	3.32E-05	1.11E-05	1.33E-06	4.35E-07	1.21E-04	4.85E-05	2.86E-05	1.18E-05	1.00E-06	3.42E-07	1.75E-04	7.72E-05	3.23E-05	1.08E-05	1.72E-06	5.04E-07	1.72E-06	5.04E-07
1305	415340	4818840	1.49E-04	8.87E-05	6.52E-05	2.43E-05	6.40E-06	3.33E-06	3.11E-04	1.97E-04	1.48E-04	5.18E-05	1.43E-05	7.84E-06	2.05E-04	6.95E-05	3.37E-05	1.12E-05	1.39E-06	4.54E-07	1.27E-04	5.04E-05	2.96E-05	1.23E-05	1.04E-06	3.55E-07	1.84E-04	8.54E-05	3.32E-05	1.09E-05	1.83E-06	5.29E-07	1.83E-06	5.29E-07
1306	415380	4818840	1.32E-04	7.40E-05	4.29E-05	1.77E-05	4.43E-06	2.32E-06	2.80E-04	1.51E-04	9.97E-05	4.64E-05	1.12E-05	6.10E-06	2.31E-04	7.71E-05	3.08E-05	1.03E-05	1.42E-06	4.71E-07	1.34E-04	5.24E-05	3.05E-05	1.28E-05	1.08E-06	3.68E-07	1.92E-04	9.40E-05	3.53E-05	1.18E-05	1.94E-06	5.55E-07	1.94E-06	5.55E-07
1307	415420	4818840	1.37E-04	6.99E-05	3.34E-05	1.57E-05	3.25E-06	1.67E-06	2.81E-04	1.40E-04	9.47E-05	3.58E-05	9.29E-06	4.58E-06	2.84E-04	8.81E-05	3.31E-05	1.10E-05	1.48E-06	4.92E-07	1.42E-04	5.48E-05	3.18E-05	1.35E-05	1.13E-06	3.85E-07	2.00E-04	1.04E-04	3.89E-05	1.30E-05	2.08E-06	5.98E-07	2.08E-06	5.98E-07
1308	415460	4818840	1.58E-04	6.36E-05	2.93E-05	1.22E-05	2.67E-06	1.24E-06	2.52E-04	1.43E-04	8.55E-05	3.08E-05	6.88E-06	3.34E-06	2.86E-04	5.59E-05	3.58E-05	1.20E-05	1.53E-06	5.06E-07	1.50E-04	5.69E-05	3.27E-05	1.42E-05	1.14E-06	3.99E-07	2.05E-04	1.12E-04	4.21E-05	1.40E-05	2.19E-06	6.14E-07	2.19E-06	6.14E-07
1309	415500	4818840	1.26E-04	6.25E-05	2.37E-05	7.82E-06	2.02E-06	9.47E-07	2.89E-04	1.48E-04	8.83E-05	2.63E-05	4.97E-06	2.55E-06	2.93E-04	9.83E-05	3.69E-05	1.23E-05	1.64E-06	5.27E-07	1.59E-04	5.93E-05	3.38E-05	1.49E-05	1.23E-06	4.15E-07	2.08E-04	1.21E-04	4.52E-05	1.51E-05	2.32E-06	6.46E-07	2.32E-06	6.46E-07
1310	415540	4818840	1.40E-04	4.66E-05	2.35E-05	7.82E-06	1.50E-06	7.52E-07	2.91E-04	1.19E-04	6.37E-05	3.00E-05	3.78E-06	1.99E-06	2.96E-04	1.07E-04	4.03E-05	1.34E-05	1.80E-06	5.67E-07	1.70E-04	6.20E-05	3.52E-05	1.57E-05	1.31E-06	4.35E-07	2.16E-04	1.29E-04	4.83E-05	1.61E-05	2.46E-06	6.84E-07	2.46E-06	6.84E-07
1311	415580	4818840	9.92E-05	4.74E-05	2.05E-05	6.86E-06	1.21E-06	6.26E-07	3.36E-04	1.29E-04	5.47E-05	2.75E-05	3.24E-06	1.58E-06	3.07E-04	1.22E-04	4.56E-05	1.52E-05	1.96E-06	5.90E-07	1.83E-04	6.62E-05	3.68E-05	1.65E-05	1.40E-06	4.57E-07	2.29E-04	1.36E-04	5.11E-05	1.70E-05	2.60E-06	7.29E-07	2.60E-06	7.29E-07
1312	415620	4818840	9.39E-05	5.11E-05	1.92E-05	6.94E-06	1.12E-06	5.43E-07	2.59E-04	1.19E-04	4.67E-05	2.59E-05	2.39E-06	1.25E-06	3.62E-04	1.59E-04	5.64E-05	1.88E-05	2.11E-06	1.97E-07	1.87E-04	6.87E-05	3.97E-05	1.76E-05	1.49E-06	4.85E-07	2.40E-04	1.42E-04	5.33E-05	1.73E-05	2.75E-06	7.81E-07	2.75E-06	7.81E-07
1313	415660	4818840	9.32E-05	4.78E-05	1.92E-05	6.55E-06	1.08E-06	4.95E-07	2.21E-04	9.67E-05	4.44E-05	1.48E-05	2.06E-06	1.10E-06	3.78E-04	1.59E-04	5.98E-05	1.99E-05	2.36E-06	6.58E-07	1.22E-04	7.26E-05	4.31E-05	1.88E-05	1.69E-06	5.15E-07	2.60E-04	1.48E-04	5.55E-05	1.85E-05	2.88E-06	8.43E-07	2.88E-06	8.43E-07
1314	415700	4818840	8.82E-05	4.75E-05	2.24E-05	7.47E-06	1.02E-06	4.53E-07	2.16E-04	1.02E-04	4.55E-05	1.52E-05	1.90E-06	9.71E-07	3.44E-04	1.41E-04	5.31E-05	1.77E-05	2.51E-06	6.94E-07	2.28E-04	7.65E-05	4.68E-05	2.01E-05	1.72E-06	5.48E-07	2.79E-04	1.65E-04	6.18E-05	2.06E-05	2.98E-06	9.10E-07	2.98E-06	9.10E-07
1315	415740	4818840	8.86E-05	4.32E-05	2.11E-05	7.05E-06	9.64E-07	4.17E-07	2.36E-04	1.12E-04	4.20E-05	1.52E-05	1.77E-06	8.67E-07	4.07E-04	1.66E-04	6.22E-05	2.07E-05	2.40E-06	7.16E-07	2.45E-04	8.17E-05	5.08E-05	2.18E-05	1.87E-06	5.91E-07	2.87E-04	1.75E-04	6.55E-05	2.18E-05	3.03E-06	9.82E-07	3.03E-06	9.82E-07
1316	415780	4818840	1.09E-04	4.19E-05	1.73E-05	6.00E-06	9.34E-07	3.92E-07	2.56E-04	1.12E-04	4.19E-05	1.51E-05	1.87E-06	7.90E-07	4.11E-04	1.68E-04	6.22E-05	2.07E-05	2.21E-06	7.66E-07	2.63E-04	8.78E-05	5.51E-05	2.36E-05	2.04E-06	6.38E-07	2.99E-04	1.73E-04	6.48E-05	2.16E-05	3.02E-06	1.06E-06	3.02E-06	1.06E-06
1317	415820	4818840	1.13E-04	4.68E-05	1.78E-05	7.51E-06	8.85E-07	3.74E-07	2.02E-04	1.15E-04	4.31E-05	1.44E-05	1.85E-06	7.28E-07	4.16E-04	1.39E-04	5.20E-05	1.73E-05	2.04E-06	7.99E-07	2.82E-04	9.42E-05	5.96E-05	2.56E-05	2.30E-06	7.03E-07	3.38E-04	1.67E-04	6.25E-05	2.09E-05	2.94E-06	1.15E-06	2.94E-06	1.15E-06
1318	415860	4818840	1.19E-04	4.77E-05	2.16E-05	7.90E-07	3.65E-07	1.93E-04	1.01E-04	4.23E-05	1.41E-05	1.42E-06	6.89E-07	4.66E-04	1.55E-04	5.83E-05	1.94E-05	1.88E-06	2.11E-06	1.97E-07	1.87E-04	6.87E-05	3.97E-05	1.76E-05	1.49E-06	4.85E-07	2.40E-04	1.52E-04	5.33E-05	1.73E-05	2.75E-06	7.81E-07	2.75E-06	7.81E-07
1319	415900	4818840	1.20E-04	6.60E-05	2.48E-05	8.37E-06	7.41E-07	3.48E-07	1.88E-04	8.97E-05	4.09E-05	1.48E-06	6.18E-07	4.86E-04	1.63E-04	6.10E-05	2.03E-05	2.20E-06	8.20E-07	3.26E-04	1.09E-04	6.89E-05	3.15E-05	2.79E-06	8.75E-07	3.91E-04	1.68E-04	7.15E-05	2.38E-05	2.87E-06	7.37E-07	2.87E-06	7.37E-07	
1320	415940	4818840	1.12E-04	6.48E-05	2.43E-05	8.53E-06	7.20E-07	3.40E-07	1.96E-04	8.54E-05	3.38E-05	1.20E-05	1.52E-06	5.72E-07	5.21E-04	1.74E-04	6.73E-05	2.24E-05	2.37E-06	1.05E-06	3.52E-04	1.17E-04	7.35E-05	3.47E-05	3.09E-06	9.94E-07	4.23E-04	1.74E-04	8.52E-05	2.85E-05	3.26E-06	1.52E-06	3.26E-06	1.52E-06
1321	415980	4818840	1.15E-04	5.57E-05	2.09E-05	7.90E-06	7.64E-07	3.27E-07	1.89E-04	6.96E-05	2.63E-05	1.06E-05	1.46E-06	5.32E-07	5.44E-04	1.81E-04	6.99E-05	3.32E-05	3.09E-06	1.22E-06	3.79E-04	1.26E-04	7.82E-05	3.86E-05	3.44E-06	1.14E-06	4.75E-04	2.13E-04	9.62E-05	3.21E-05	3.55E-06	1.69E-06	3.55E-06	1.69E-06
1322	416020	4818840	1.20E-04	4.69E-05	1.81E-05	6.92E-06	8.18E-07	3.15E-07	1.86E-04	7.20E-05	2.70E-05	9.97E-06	1.30E-06	4.98E-07	5.26E-04	1.60E-04	6.20E-05	3.57E-05	3.98E-06	1.45E-06	4.16E-04	1.39E-04	8.47E-05	3.41E-05	3.95E-06	1.35E-06	5.17E-04	2.87E-04	1.08E-04	4.40E-05	4.99E-06	1.91E-06	4.99E-06	1.91E-06
1323	416060	4818840	1.17E-04	4.19E-05	1.83E-05	6.52E-06	8.30E-07	3.01E-07	1.67E-04	9.44E-05	3.54E-05	1.19E-05	1.11E-06	4.71E-07	5.97E-04	2.41E-04	9.24E-05	3.77E-05	4.25E-06	1.84E-06	4.64E-04	1.55E-04	9.31E-05	6.03E-05	5.55E-06	1.21E-06	3.08E-04	1.25E-04	4.12E-05	1.51E-05	2.16E-06	6.21E-06	6.21E-06	2.16E-06
1324	416100	4818840	1.09E-04	4.66E-05	1.69E-05	5.98E-06	8.09E-07	2.85E-07	1.62E-04	9.10E-05	3.76E-05	1.04E-05	3.89E-05	3.00E-06	1.03E-06	4.50E-07	2.76E-04	1.37E-04	4.79E-05	7.02E-06	3.22E-05	5.19E-04	1.82E-04	1.06E-04	6.01E-05	5.55E-06	1.21E-06	3.08E-04	1.25E-04	4.12E-05	1.51E-05	2.16E-06	6.21E-06	6.21E-06
1325	416140	4818840	9.69E-05																															

AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL 1hr	3hr	8hr	24hr	Month	Annual	IEDF 1hr	3hr	8hr	24hr	Month	Annual	IRC 1hr	3hr	8hr	24hr	Month	Annual	RESL 1hr	3hr	8hr	24hr	Month	Annual	
1396	416540	4818880	6.15E-05	2.55E-05	1.08E-05	4.78E-06	3.72E-07	1.64E-07	8.24E-05	5.20E-05	1.95E-05	8.50E-06	6.05E-07	2.74E-07	4.67E-04	1.98E-04	7.47E-05	3.25E-05	7.70E-06	4.50E-06	3.66E-04	1.64E-04	8.47E-05	3.67E-05	4.62E-06	2.37E-06	4.85E-04	2.76E-04	1.39E-04	5.95E-05	1.76E-05	1.08E-05		
1397	416580	4818880	5.74E-05	2.39E-05	1.07E-05	4.67E-06	3.47E-07	1.59E-07	8.21E-05	5.10E-05	1.91E-05	8.38E-06	5.77E-07	2.66E-07	4.62E-04	1.71E-04	6.58E-05	3.42E-05	6.68E-06	3.50E-06	3.55E-04	1.43E-04	7.02E-05	3.75E-05	3.46E-06	1.87E-06	4.18E-04	2.62E-04	1.26E-04	4.75E-05	1.35E-05	8.02E-06		
1398	416620	4818880	5.48E-05	2.16E-05	1.03E-05	4.48E-06	3.20E-07	1.49E-07	7.95E-05	4.70E-05	1.78E-05	8.59E-06	5.19E-07	2.46E-07	4.10E-04	1.87E-04	6.23E-05	2.64E-05	6.14E-06	3.29E-06	3.37E-04	1.43E-04	5.91E-05	3.75E-05	3.02E-06	1.56E-06	4.55E-04	2.21E-04	1.00E-04	4.30E-05	1.14E-05	6.29E-06		
1399	416660	4818880	5.36E-05	2.08E-05	1.04E-05	4.29E-06	3.30E-07	1.50E-07	8.08E-05	4.81E-05	1.88E-05	8.27E-06	5.33E-07	2.51E-07	3.80E-04	1.80E-04	7.09E-05	2.68E-05	5.34E-06	2.45E-06	2.95E-04	1.45E-04	5.53E-05	3.42E-05	2.85E-06	1.31E-06	3.79E-04	2.18E-04	1.05E-04	4.34E-05	1.12E-05	4.71E-06		
1400	416700	4818880	5.07E-05	1.92E-05	1.00E-05	4.07E-06	3.38E-07	1.45E-07	7.98E-05	4.58E-05	1.89E-05	8.28E-06	5.15E-07	2.42E-07	3.51E-04	1.69E-04	6.45E-05	2.29E-05	4.99E-06	2.03E-06	2.50E-04	1.33E-04	5.06E-05	3.09E-05	2.31E-06	1.11E-06	3.45E-04	1.76E-04	7.59E-05	3.02E-05	7.55E-06	3.69E-06		
1401	416740	4818880	4.75E-05	1.87E-05	9.61E-06	3.93E-06	3.43E-07	1.41E-07	7.87E-05	4.33E-05	1.86E-05	8.23E-06	5.07E-07	2.37E-07	3.44E-04	1.49E-04	5.59E-05	2.32E-05	3.86E-06	1.75E-06	2.11E-04	1.21E-04	4.62E-05	2.84E-05	2.08E-06	9.69E-07	3.12E-04	1.78E-04	7.15E-05	2.68E-05	6.54E-06	3.07E-06		
1402	416780	4818880	4.30E-05	1.85E-05	9.48E-06	3.66E-06	3.54E-07	1.39E-07	7.87E-05	4.17E-05	1.89E-05	8.31E-06	5.10E-07	2.28E-07	3.03E-04	1.26E-04	4.96E-05	2.22E-05	3.26E-06	1.54E-06	1.90E-04	1.15E-04	4.39E-05	2.83E-05	1.95E-06	8.91E-07	2.95E-04	1.72E-04	7.24E-05	2.53E-05	5.72E-06	2.65E-06		
1403	416820	4818880	3.99E-05	1.81E-05	8.98E-06	3.89E-06	3.50E-07	1.33E-07	7.67E-05	3.85E-05	1.84E-05	8.51E-06	4.91E-07	2.16E-07	2.73E-04	1.14E-04	4.98E-05	2.03E-05	2.84E-06	1.41E-06	1.86E-04	1.11E-04	4.24E-05	2.47E-05	1.86E-06	8.36E-07	2.95E-04	1.73E-04	7.20E-05	2.58E-05	5.26E-06	2.36E-06		
1404	416860	4818880	1.12E-04	3.73E-05	1.90E-05	9.03E-06	8.18E-07	3.11E-07	1.72E-04	6.99E-05	3.29E-05	1.32E-05	1.63E-06	5.93E-07	8.51E-05	2.95E-05	1.76E-05	7.60E-06	5.92E-07	2.09E-07	7.04E-05	2.35E-05	1.63E-05	7.72E-06	6.13E-07	1.83E-07	8.72E-05	3.32E-05	1.77E-05	7.93E-06	6.60E-07	2.19E-07		
1405	416900	4818880	9.61E-05	3.42E-05	1.95E-05	9.03E-06	8.84E-07	3.12E-07	1.93E-04	7.30E-05	3.29E-05	1.25E-05	1.65E-06	6.21E-07	8.44E-05	3.01E-05	1.74E-05	7.49E-06	5.95E-07	2.10E-07	6.95E-05	2.32E-05	1.59E-05	7.74E-06	6.09E-07	1.83E-07	8.79E-05	3.32E-05	1.77E-05	7.85E-06	6.73E-07	2.22E-07		
1406	414500	4818920	7.99E-05	3.56E-05	2.09E-05	9.14E-06	9.83E-07	3.37E-07	2.18E-04	9.28E-05	3.82E-05	1.64E-05	1.84E-06	6.69E-07	8.49E-05	3.10E-05	1.74E-05	7.46E-06	6.07E-07	2.13E-07	6.97E-05	2.32E-05	1.59E-05	7.79E-06	6.14E-07	1.85E-07	8.94E-05	3.40E-05	1.77E-05	7.82E-06	6.93E-07	2.27E-07		
1407	414540	4818920	8.42E-05	3.48E-05	2.08E-05	8.74E-06	1.05E-06	3.64E-07	2.12E-04	1.14E-04	4.84E-05	1.84E-05	1.71E-06	7.13E-07	8.46E-05	3.17E-05	1.73E-05	7.39E-06	6.16E-07	2.12E-07	6.85E-05	2.32E-05	1.58E-05	7.79E-06	6.15E-07	1.86E-07	9.02E-05	3.46E-05	1.76E-05	7.73E-06	7.10E-07	2.31E-07		
1408	414580	4818920	8.94E-05	3.99E-05	1.97E-05	8.74E-06	1.03E-06	3.95E-07	1.92E-04	1.09E-04	4.68E-05	1.58E-05	1.67E-06	7.21E-07	8.14E-05	3.14E-05	1.66E-05	7.10E-06	6.07E-07	2.12E-07	6.71E-05	2.22E-05	1.51E-05	7.57E-06	5.98E-07	1.82E-07	8.80E-05	3.42E-05	1.70E-05	7.43E-06	7.06E-07	2.28E-07		
1409	414620	4818920	1.01E-04	4.29E-05	1.97E-05	7.36E-06	1.13E-06	4.46E-07	1.85E-04	9.60E-05	3.68E-05	1.23E-05	1.69E-06	7.66E-07	8.17E-05	3.24E-05	1.67E-05	7.11E-06	6.27E-07	2.17E-07	6.82E-05	2.27E-05	1.53E-05	7.71E-06	6.10E-07	1.86E-07	8.97E-05	3.51E-05	1.72E-05	7.40E-06	7.33E-07	2.35E-07		
1410	414660	4818920	1.05E-04	5.79E-05	2.70E-05	9.12E-06	1.27E-06	5.08E-07	1.87E-04	9.02E-05	3.44E-05	1.18E-05	1.67E-06	8.33E-07	8.42E-05	3.38E-05	1.69E-05	7.12E-06	6.50E-07	2.24E-07	6.95E-05	2.32E-05	1.55E-05	7.86E-06	6.24E-07	1.91E-07	9.20E-05	3.60E-05	1.78E-05	7.37E-06	7.63E-07	2.42E-07		
1411	414700	4818920	1.07E-04	5.98E-05	2.77E-05	9.38E-06	1.43E-06	5.86E-07	2.30E-04	1.20E-04	4.85E-05	1.59E-05	2.03E-06	9.98E-07	9.21E-05	3.65E-05	1.79E-05	7.44E-06	7.07E-07	2.41E-07	7.46E-05	2.49E-05	1.63E-05	8.39E-06	6.37E-07	2.06E-07	9.69E-05	3.84E-05	1.91E-05	7.64E-06	8.33E-07	2.61E-07		
1412	414740	4818920	1.11E-04	5.17E-05	2.73E-05	9.70E-06	1.51E-06	6.92E-07	2.75E-04	1.46E-04	5.62E-05	2.17E-05	2.94E-06	1.25E-06	1.10E-04	4.22E-05	2.08E-05	8.39E-06	8.41E-07	2.91E-07	9.01E-05	3.00E-05	2.00E-05	9.96E-06	8.02E-07	2.44E-07	1.13E-04	4.27E-05	2.13E-05	8.25E-06	9.55E-07	2.94E-07		
1413	414780	4818920	1.23E-04	7.35E-05	2.76E-05	1.07E-05	1.84E-06	8.06E-07	3.05E-04	1.55E-04	5.96E-05	2.28E-05	3.48E-06	1.44E-06	1.15E-04	4.35E-05	2.15E-05	8.35E-06	8.75E-07	2.90E-07	9.01E-05	3.06E-05	2.02E-05	1.02E-05	1.02E-05	1.11E-06	4.34E-05	2.51E-07	1.16E-04	3.45E-05	1.81E-06	1.00E-06	3.04E-07	
1414	414820	4818920	1.53E-04	8.19E-05	3.08E-05	1.17E-05	2.39E-06	9.57E-07	2.67E-04	1.39E-04	5.81E-05	2.52E-05	3.54E-06	1.70E-06	1.19E-04	4.47E-05	2.23E-05	8.29E-06	9.11E-07	2.99E-07	9.36E-05	3.12E-05	2.04E-05	1.04E-05	8.40E-07	2.58E-07	1.18E-04	4.41E-05	2.24E-05	8.04E-06	1.05E-06	3.15E-07		
1415	414860	4818920	1.64E-04	7.85E-05	3.12E-05	1.69E-05	2.76E-06	1.18E-06	3.00E-04	1.55E-04	7.04E-05	2.84E-05	4.79E-06	2.08E-06	1.20E-04	4.46E-05	2.25E-05	7.98E-06	9.22E-07	3.00E-07	9.19E-05	3.16E-05	2.07E-05	1.02E-05	1.02E-05	1.04E-05	8.31E-07	2.57E-07	1.19E-04	4.66E-05	2.26E-05	7.76E-06	1.08E-06	3.21E-07
1416	414900	4818920	1.69E-04	8.63E-05	4.45E-05	2.22E-05	3.32E-06	1.50E-06	3.22E-04	1.53E-04	7.38E-05	3.48E-05	6.05E-06	2.50E-06	1.23E-04	4.53E-05	2.31E-05	7.82E-06	9.59E-07	3.09E-07	9.32E-05	3.11E-05	1.98E-05	1.03E-05	8.46E-07	2.63E-07	1.24E-04	5.07E-05	2.29E-05	7.63E-06	1.13E-06	3.31E-07		
1417	414940	4818920	1.83E-04	9.29E-05	4.20E-05	2.17E-05	4.29E-06	1.91E-06	3.25E-04	1.63E-04	8.03E-05	3.88E-05	5.90E-06	2.92E-06	1.25E-04	4.45E-05	2.31E-05	7.70E-06	9.85E-07	3.15E-07	9.37E-05	3.12E-05	1.94E-05	1.06E-05	8.45E-07	2.70E-07	1.29E-04	5.49E-05	2.30E-05	7.68E-06	1.24E-06	3.41E-07		
1418	414980	4818920	1.73E-04	9.05E-05	4.01E-05	2.17E-05	4.05E-06	1.95E-06	3.24E-04	1.54E-04	7.62E-05	3.19E-05	5.82E-06	3.30E-06	1.29E-04	4.38E-05	2.30E-05	7.71E-06	9.81E-07	3.10E-07	9.30E-05	3.11E-05	1.94E-05	1.03E-05	8.35E-07	2.69E-07	1.33E-04	5.68E-05	2.27E-05	7.62E-06	1.22E-06	3.49E-07		
1419	415020	4818920	2.05E-04	1.03E-04	4.50E-05	2.20E-05	6.57E-06	2.86E-06	4.02E-04	2.21E-04	9.61E-05	3.27E-05	9.61E-06	3.89E-06	1.39E-04	4.64E-05	2.33E-05	7.75E-06	1.04E-06	3.28E-07	9.45E-05	3.15E-05	1.97E-05	1.05E-05	8.63E-07	2.75E-07	1.36E-04	6.36E-05	2.78E-05	7.94E-06	1.28E-06	3.60E-07		
1420	415060	4818920	2.33E-04	9.79E-05	5.40E-05	2.65E-05	8.35E-06	3.69E-06	3.88E-04	1.82E-04	8.06E-05	3.86E-05	1.11E-05	4.47E-06	1.54E-04	5.14E-05	2.38E-05	7.93E-06	1.11E-06	3.45E-06	9.92E-05	3.31E-05	2.06E-05	1.09E-05	9.05E-07	2.90E-07	1.44E-04	7.02E-05	2.63E-05	8.78E-06	1.36E-06	3.79E-07		
1421	415100	4818920	1.95E-04	1.04E-04	5.48E-05	3.92E-05	1.21E-05	4.91E-06	2.75E-04	1.48E-04	7.38E-05	4.83E-05	1.33E-05	5.25E-06	1.69E-04	5.87E-05	2.41E-05	8.02E-06	1.17E-06	3.62E-07	1.03E-04	3.45E-05	2.15E-05	1.13E-05	9.42E-07	3.03E-07	1.50E-04	7.70E-05	2.89E-05	9.62E-06	1.45E-06	3.98E-07		
1422	415140	4818920	2.04E-04	1.02E-04	5.93E-05	3.93E-05	1.15E-05	6.25E-06	3.15E-04	1.56E-04	7.94E-05	4.37E-05	1.66E-05	6.33E-06	1.76E-04	5.63E-05	2.33E-05	7.77E-06	1.18E-06	3.65E-07	1.02E-04	3.40E-05	2.11E-05	1.13E-05	9.30E-07	3.03E-07	1.50E-04	8.08E-05	3.03E-05	1.01E-05	1.49E-06	4.06E-07		
1423	415180	4818920	2.13E-04	1.09E-04	6.23E-05	4.08E-05	1.21E-05	5.13E-06	3.27E-04	1.61E-04	8.14E-05	4.54E-05	1.71E-05	6.58E-06	1.85E-04	5.98E-05	2.45E-05	8.15E-06	1.20E-06	3.69E-07	1.04E-04	3.46E-05	2.17E-05	1.14E-05										

ENGINEERING CALCULATIONS AND ANALYSIS AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
1489	415380	4818960	1.88E-04	7.91E-05	3.86E-05	1.64E-05	1.23E-04	3.90E-06	1.92E-06	3.42E-04	1.83E-04	4.67E-05	1.14E-05	5.64E-06	2.19E-04	8.69E-05	3.26E-05	1.09E-05	1.52E-06	4.44E-07	1.37E-04	4.84E-05	2.62E-05	1.14E-05	1.00E-06	3.68E-07	1.81E-04	1.06E-04	3.97E-05	1.32E-05	1.80E-06	5.11E-07					
1490	415420	4818960	1.25E-04	7.15E-05	2.80E-05	1.10E-05	2.83E-06	1.34E-06	3.45E-04	1.71E-04	8.57E-05	3.49E-05	7.80E-06	3.85E-06	2.39E-04	1.08E-04	4.05E-05	1.35E-05	1.53E-06	4.59E-07	1.40E-04	5.21E-05	2.64E-05	1.15E-05	1.04E-06	3.80E-07	1.86E-04	1.11E-04	4.19E-05	1.39E-05	1.83E-06	5.37E-07					
1491	415460	4818960	1.19E-04	5.93E-05	2.68E-05	1.10E-06	2.01E-06	1.01E-06	3.36E-04	1.56E-04	8.05E-05	3.71E-05	5.12E-06	2.79E-06	2.32E-04	1.16E-04	4.35E-05	1.45E-05	1.54E-06	4.78E-07	1.47E-04	5.60E-05	2.75E-05	1.15E-05	1.08E-06	3.96E-07	1.87E-04	1.11E-04	4.29E-05	1.43E-05	1.84E-06	5.67E-07					
1492	415500	4818960	1.15E-04	6.20E-05	2.33E-05	9.96E-06	1.82E-06	8.24E-07	4.05E-04	1.59E-04	8.80E-05	3.35E-05	4.16E-06	2.04E-06	2.30E-04	1.14E-04	4.27E-05	1.42E-05	1.52E-06	5.04E-07	1.61E-04	6.00E-05	2.98E-05	1.15E-05	1.12E-06	4.07E-07	1.94E-04	1.14E-04	4.27E-05	1.42E-05	1.84E-06	6.00E-07					
1493	415540	4818960	1.08E-04	6.03E-05	2.67E-05	8.66E-06	1.65E-06	7.16E-07	2.82E-04	1.29E-04	5.38E-05	1.84E-05	2.96E-06	1.59E-06	2.51E-04	8.73E-05	3.33E-05	1.17E-05	1.42E-06	5.30E-07	1.74E-04	6.39E-05	3.22E-05	1.15E-05	1.17E-06	4.26E-07	2.07E-04	1.10E-04	4.12E-05	1.37E-05	1.83E-06	6.39E-07					
1494	415580	4818960	1.10E-04	5.07E-05	2.81E-05	9.96E-06	1.52E-06	6.36E-07	2.58E-04	1.27E-04	5.89E-05	1.96E-05	2.49E-06	1.33E-06	2.84E-04	9.48E-05	3.55E-05	1.18E-05	1.34E-06	5.40E-07	1.85E-04	6.74E-05	3.45E-05	1.15E-05	1.21E-06	4.47E-07	2.19E-04	1.12E-04	4.27E-05	1.40E-05	1.81E-06	6.30E-07					
1495	415620	4818960	1.36E-04	5.31E-05	2.26E-05	8.10E-06	1.39E-06	5.76E-07	2.83E-04	1.35E-04	5.97E-05	1.85E-05	2.36E-06	1.15E-06	3.02E-04	1.07E-04	4.03E-05	1.34E-05	1.36E-06	5.80E-07	1.92E-04	6.99E-05	3.65E-05	1.22E-05	1.28E-06	4.66E-07	2.29E-04	1.18E-04	4.44E-05	1.48E-05	1.79E-06	7.31E-07					
1496	415660	4818960	1.36E-04	6.32E-05	2.42E-05	1.05E-05	1.25E-06	5.34E-07	3.03E-04	1.32E-04	4.06E-05	1.87E-05	2.06E-06	1.01E-06	3.22E-04	1.01E-04	3.90E-05	1.30E-05	1.38E-06	6.24E-07	1.98E-04	6.62E-05	3.59E-05	1.20E-05	1.36E-06	4.85E-07	2.35E-04	1.19E-04	4.46E-05	1.49E-05	1.75E-06	7.82E-07					
1497	415700	4818960	1.47E-04	7.78E-05	2.92E-05	1.08E-05	1.07E-06	5.01E-07	2.31E-04	1.38E-04	5.18E-05	1.74E-05	1.92E-06	9.01E-07	3.24E-04	1.18E-04	4.28E-05	1.43E-05	1.40E-06	6.49E-07	2.19E-04	7.33E-05	3.63E-05	1.21E-05	1.49E-06	5.11E-07	2.47E-04	1.13E-04	4.42E-05	1.47E-05	1.73E-06	8.36E-07					
1498	415740	4818960	1.38E-04	7.74E-05	2.90E-05	1.09E-05	1.01E-06	4.76E-07	2.42E-04	1.10E-04	5.18E-05	1.73E-05	1.95E-06	9.11E-07	3.56E-04	1.19E-04	4.46E-05	1.49E-05	1.59E-06	6.99E-07	2.34E-04	7.83E-05	3.54E-05	1.18E-05	1.65E-06	5.35E-07	2.59E-04	1.12E-04	4.52E-05	1.75E-05	1.88E-06	8.99E-07					
1499	415780	4818960	1.49E-04	6.40E-05	2.40E-05	9.75E-06	1.11E-06	4.55E-07	2.45E-04	1.08E-04	4.27E-05	1.54E-05	1.96E-06	7.31E-07	3.62E-04	1.21E-04	5.19E-05	1.73E-05	1.62E-06	7.36E-07	2.48E-04	1.05E-04	3.93E-05	1.31E-05	1.82E-06	5.67E-07	2.76E-04	1.23E-04	6.02E-05	2.01E-05	2.02E-06	9.75E-07					
1500	415820	4818960	1.49E-04	5.90E-05	2.31E-05	8.78E-06	1.15E-06	4.32E-07	2.31E-04	8.26E-05	3.33E-05	1.28E-05	1.84E-06	6.68E-07	3.97E-04	1.32E-04	4.96E-05	1.85E-05	1.62E-06	7.96E-07	2.51E-04	1.23E-04	4.63E-05	1.54E-05	2.02E-06	6.01E-07	2.92E-04	1.43E-04	6.40E-05	2.13E-05	2.22E-06	1.07E-06					
1501	415860	4818960	1.38E-04	5.20E-05	2.21E-05	8.96E-06	1.13E-06	4.05E-07	2.23E-04	1.13E-04	4.23E-05	1.42E-05	1.57E-06	6.21E-07	3.78E-04	1.59E-04	5.95E-05	2.24E-05	2.45E-06	8.06E-07	2.71E-04	1.37E-04	5.13E-05	1.71E-05	2.28E-06	6.56E-07	3.11E-04	1.78E-04	6.69E-05	2.45E-05	2.75E-06	1.19E-06					
1502	415900	4818960	1.21E-04	5.01E-05	1.88E-05	8.51E-06	1.04E-06	3.77E-07	2.09E-04	1.33E-04	4.98E-05	1.67E-05	1.36E-06	5.87E-07	4.23E-04	1.67E-04	6.76E-05	2.48E-05	2.88E-06	9.92E-07	2.71E-04	1.34E-04	5.01E-05	1.67E-05	2.45E-06	7.17E-07	3.47E-04	1.87E-04	7.02E-05	2.84E-05	3.27E-06	1.33E-06					
1503	415940	4818960	1.12E-04	5.59E-05	2.10E-05	8.40E-06	9.27E-07	3.51E-07	2.04E-04	1.26E-04	4.74E-05	1.59E-05	1.31E-06	5.63E-07	4.70E-04	2.11E-04	8.21E-05	2.76E-05	2.13E-06	2.99E-07	1.43E-04	5.32E-05	1.77E-05	2.45E-06	7.91E-07	3.74E-04	1.86E-04	7.02E-05	2.91E-05	3.39E-06	1.49E-06						
1504	415980	4818960	1.06E-04	5.81E-05	2.16E-05	7.58E-06	8.00E-07	3.24E-07	2.08E-04	1.01E-04	3.78E-05	1.27E-05	1.14E-06	5.40E-07	3.16E-04	1.73E-04	7.17E-05	3.10E-05	3.35E-06	1.22E-06	2.94E-04	1.47E-04	5.49E-05	1.83E-05	2.28E-06	8.81E-07	3.28E-04	1.61E-04	8.81E-05	3.13E-05	3.46E-06	1.65E-06					
1505	416020	4818960	9.64E-05	5.71E-05	2.14E-05	7.17E-06	8.85E-07	3.02E-07	2.07E-04	7.82E-05	3.47E-05	1.16E-05	1.14E-06	5.14E-07	4.77E-04	1.71E-04	8.81E-05	2.94E-05	4.69E-06	1.40E-06	2.94E-04	1.34E-04	5.02E-05	1.87E-05	2.15E-06	1.02E-06	4.50E-04	1.93E-04	1.02E-04	3.40E-05	5.01E-06	8.00E-06					
1506	416060	4818960	9.62E-05	5.35E-05	2.00E-05	6.70E-06	5.85E-07	2.81E-07	1.82E-04	6.67E-05	3.38E-05	1.13E-05	1.13E-06	4.83E-07	5.58E-04	2.20E-04	8.68E-05	3.59E-05	3.36E-06	1.55E-06	3.79E-04	1.26E-04	5.29E-05	2.00E-05	2.90E-06	1.24E-06	4.87E-04	2.26E-04	1.32E-04	4.40E-05	6.15E-06	1.97E-06					
1507	416100	4818960	9.38E-05	4.79E-05	1.80E-05	6.00E-06	5.84E-07	2.62E-07	1.64E-04	5.97E-05	2.95E-05	9.82E-06	1.08E-06	4.51E-07	5.49E-04	1.73E-04	6.89E-05	3.26E-05	3.43E-06	1.90E-06	4.32E-04	1.44E-04	8.85E-05	3.36E-05	3.74E-06	1.53E-06	5.39E-04	2.34E-04	1.28E-04	4.26E-05	5.67E-06	2.17E-06					
1508	416140	4818960	9.63E-05	4.19E-05	1.57E-05	5.76E-06	5.70E-07	2.48E-07	1.46E-04	5.48E-05	2.35E-05	9.20E-06	1.01E-06	4.22E-07	5.03E-04	2.04E-04	1.00E-04	4.37E-05	6.17E-06	2.71E-06	4.08E-04	1.81E-04	8.17E-05	3.96E-05	4.84E-06	2.03E-06	4.85E-04	2.39E-04	9.38E-05	4.21E-05	5.26E-06	2.46E-06					
1509	416180	4818960	9.47E-05	3.74E-05	1.45E-05	6.16E-06	5.42E-07	2.33E-07	1.26E-04	5.62E-05	2.11E-05	9.19E-06	9.27E-07	3.95E-07	6.20E-04	2.50E-04	1.02E-04	5.01E-05	9.11E-06	3.98E-06	5.29E-04	2.14E-04	1.16E-04	3.93E-05	6.64E-06	2.82E-06	5.68E-04	2.53E-04	1.05E-04	4.97E-05	7.11E-06	3.11E-06					
1510	416220	4818960	8.96E-05	3.55E-05	1.43E-05	5.39E-06	5.15E-07	2.21E-07	1.35E-04	5.94E-05	2.16E-05	8.78E-06	8.83E-07	3.71E-07	6.09E-04	2.98E-04	1.10E-04	5.39E-05	1.10E-06	5.39E-06	6.76E-04	2.13E-04	1.37E-04	5.92E-05	5.25E-06	4.24E-06	6.09E-04	2.99E-04	1.40E-04	6.02E-05	1.02E-05	4.13E-06					
1511	416260	4818960	8.25E-05	3.16E-05	1.28E-05	4.42E-06	5.17E-07	9.71E-05	8.02E-05	2.18E-05	9.38E-06	7.86E-07	3.50E-07	6.09E-04	3.26E-04	1.38E-04	5.21E-05	3.30E-05	3.96E-06	4.42E-04	2.03E-04	8.90E-05	3.22E-05	9.72E-06	3.17E-06	1.41E-05	1.69E-05	2.01E-05	5.98E-05	1.25E-05	5.25E-06						
1512	416300	4818960	7.42E-05	2.84E-05	1.35E-05	6.30E-06	4.42E-07	1.96E-07	9.24E-05	5.61E-05	2.10E-05	7.81E-06	7.23E-07	3.37E-07	5.33E-04	2.05E-04	1.20E-04	6.18E-05	1.43E-05	9.59E-06	1.14E-03	5.22E-04	2.83E-04	1.42E-04	3.85E-05	2.28E-05	5.76E-04	2.94E-04	1.58E-04	5.84E-05	1.42E-05	7.16E-06					
1513	416340	4818960	7.11E-05	2.53E-05	1.31E-05	6.04E-06	4.02E-07	1.85E-07	9.30E-05	5.46E-05	2.05E-05	7.19E-06	6.72E-07	3.31E-07	5.54E-04	2.06E-04	1.29E-04	6.16E-05	1.68E-05	1.13E-05	8.98E-04	3.93E-04	1.22E-04	1.44E-04	4.91E-05	3.33E-05	5.00E-04	2.92E-04	1.52E-04	5.90E-05	1.51E-05	9.45E-06					
1514	416380	4818960	6.71E-05	2.27E-05	1.26E-05	5.69E-06	3.96E-07	1.76E-07	9.15E-05	5.25E-05	1.97E-05	6.57E-06	6.30E-07	2.98E-07	5.53E-04	2.06E-04	1.22E-04	5.47E-05	1.60E-05	1.13E-05	7.15E-04	2.64E-04	1.63E-04	9.70E-05	3.88E-05	2.64E-05	4.73E-04	2.60E-04	1.66E-04	8.26E-05	1.68E-05	1.12E-05					
1515	416420	4818960	6.22E-05	2.25E-05	1.20E-05	5.26E-06	4.03E-07	1.68E-07	9.05E-05	5.06E-05	1.85E-05	6.50E-06	5.98E-07	2.87E-07	5.43E-04	2.21E-04	1.30E-04	5.33E-05	1.55E-05	1.08E-05	5.00E-04	2.79E-04	1.16E-04	6.78E-05	2.33E-05	1.52E-05	4.54E-04	3.00E-04	1.43E-04	8.48E-05	1.89E-05	1.26E-05					
1516	416460	4818960	5.69E-05	2.16E-05	1.13E-05	4.81E-06	3.35E-07	1.32E-07	8.42E-05	4.94E-05	1.97E-05	6.57E-06	5.26E-07	2.78E-07	4.75E-04	1.81E-04	9.97E-05	5.48E-05	9.26E-06	4.34E-04	1.80E-04	1.06E-04	5.24E-05	2.31E-05	1.44E-07	1.36E-04	8.7E-05	3.34E-05	3.18E-05	1.52E-							

AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
1582	416660	4819000	4.55E-05	1.67E-05	7.48E-06	3.23E-06	3.86E-07	1.41E-07	7.82E-05	3.16E-05	1.90E-05	6.57E-06	5.71E-07	2.34E-07	3.18E-04	1.16E-04	5.21E-05	2.29E-05	5.62E-06	3.17E-06	2.81E-04	1.30E-04	4.88E-05	2.03E-05	4.20E-06	1.95E-06	3.17E-04	1.91E-04	8.56E-05	3.34E-05	9.24E-06	5.56E-06					
1583	416700	4819000	4.56E-05	1.60E-05	7.55E-06	3.17E-06	3.80E-07	1.40E-07	7.32E-05	3.15E-05	1.85E-05	6.39E-06	5.81E-07	2.29E-07	3.37E-04	1.41E-04	5.28E-05	2.06E-05	4.95E-06	2.65E-06	2.42E-04	1.07E-04	4.17E-05	1.92E-05	3.41E-06	1.62E-06	2.86E-04	1.73E-04	7.93E-05	3.00E-05	7.72E-06	4.53E-06					
1584	416740	4819000	4.51E-05	1.55E-05	7.49E-06	3.10E-06	3.70E-07	1.36E-07	7.02E-05	3.09E-05	1.75E-05	6.13E-06	5.82E-07	2.20E-07	3.39E-04	1.42E-04	5.28E-05	2.20E-05	4.49E-06	2.32E-06	2.12E-04	9.76E-05	3.94E-05	1.73E-05	2.73E-06	1.62E-06	2.86E-04	1.64E-06	6.66E-05	2.63E-05	6.77E-06	3.75E-06					
1585	416780	4819000	4.37E-05	1.50E-05	7.27E-06	2.99E-06	3.53E-07	1.31E-07	6.83E-05	2.97E-05	1.67E-05	5.79E-06	5.72E-07	2.07E-07	3.02E-04	1.19E-04	4.61E-05	2.01E-05	4.21E-06	1.98E-06	2.02E-04	9.88E-05	4.47E-05	1.78E-05	2.25E-06	1.23E-06	2.88E-04	1.50E-04	5.75E-05	2.56E-05	6.18E-06	3.19E-06					
1586	416820	4819000	4.44E-05	1.44E-05	7.00E-06	3.34E-07	1.24E-07	6.27E-05	2.82E-05	1.55E-05	5.39E-06	5.37E-07	1.93E-07	2.76E-04	1.25E-04	4.93E-05	1.71E-05	1.40E-06	1.70E-06	2.05E-04	9.05E-05	4.74E-05	1.87E-05	1.10E-06	1.10E-06	1.30E-04	1.59E-04	5.99E-05	2.21E-05	5.73E-06	2.76E-06						
1587	416860	4819000	1.81E-04	6.03E-05	2.25E-05	8.91E-06	8.59E-07	3.56E-07	2.11E-04	7.02E-05	3.61E-05	1.59E-05	1.25E-06	5.31E-07	8.02E-05	2.94E-05	1.52E-05	5.07E-06	6.42E-07	1.99E-07	7.05E-05	3.52E-05	1.55E-05	5.67E-06	5.89E-07	1.81E-07	8.50E-05	1.48E-05	4.92E-06	7.21E-07	2.07E-07						
1588	416900	4819000	1.88E-04	6.28E-05	2.35E-06	9.40E-06	8.87E-07	3.75E-07	2.24E-04	7.47E-05	3.76E-05	1.77E-04	1.44E-06	5.57E-07	8.40E-05	2.92E-05	1.52E-05	5.07E-06	6.56E-07	2.02E-07	7.06E-05	2.35E-05	1.55E-05	7.56E-06	5.68E-07	1.83E-07	8.70E-05	3.68E-05	1.47E-05	4.90E-06	7.42E-07	2.11E-07					
1589	414580	4819000	1.83E-04	6.11E-05	2.46E-05	9.27E-06	9.35E-07	3.99E-07	2.17E-04	7.22E-05	3.41E-05	1.88E-05	1.66E-06	5.85E-07	8.60E-05	2.92E-05	1.52E-05	5.05E-06	6.70E-07	2.04E-07	7.08E-05	2.36E-05	1.55E-05	7.54E-06	5.65E-07	1.84E-07	8.66E-05	3.89E-05	1.46E-05	4.86E-06	7.63E-07	2.14E-07					
1590	414540	4819000	1.67E-04	5.86E-05	2.24E-05	8.43E-06	9.52E-07	4.09E-07	2.19E-04	7.31E-05	3.48E-05	1.87E-05	1.86E-06	6.15E-07	8.74E-05	3.11E-05	1.50E-05	4.99E-06	6.80E-07	2.03E-07	7.07E-05	2.36E-05	1.54E-05	7.49E-06	5.60E-07	1.85E-07	8.97E-05	4.09E-05	1.53E-05	5.11E-06	7.81E-07	2.17E-07					
1591	414580	4819000	1.50E-04	5.75E-05	2.15E-05	8.71E-06	9.28E-07	4.12E-07	2.15E-04	7.18E-05	4.20E-05	1.74E-05	1.96E-06	6.40E-07	8.71E-05	3.20E-05	1.45E-05	4.84E-06	6.80E-07	2.03E-07	6.95E-05	2.32E-05	1.51E-05	7.34E-06	5.45E-07	1.83E-07	8.92E-05	4.21E-05	1.58E-05	5.27E-06	7.87E-07	2.17E-07					
1592	414620	4819000	1.51E-04	5.02E-05	1.89E-05	9.05E-06	9.34E-07	4.23E-07	1.91E-04	7.54E-05	4.07E-05	1.82E-05	1.98E-06	6.93E-07	8.80E-05	3.35E-05	1.42E-05	4.73E-06	6.92E-07	2.04E-07	6.98E-05	2.33E-05	1.50E-05	7.30E-06	5.41E-07	1.84E-07	8.95E-05	4.39E-05	1.65E-05	5.48E-06	8.02E-07	2.19E-07					
1593	414680	4819000	1.41E-04	4.83E-05	2.11E-05	1.04E-05	1.07E-06	4.46E-07	2.30E-04	8.59E-05	4.00E-05	1.62E-05	1.93E-06	7.77E-07	9.07E-05	3.58E-05	1.41E-05	4.68E-06	7.17E-07	2.09E-07	7.14E-05	2.38E-05	1.53E-05	7.39E-06	5.48E-07	1.89E-07	9.13E-05	4.67E-05	1.75E-05	5.84E-06	8.34E-07	2.25E-07					
1594	414700	4819000	1.19E-04	4.73E-05	2.56E-05	1.16E-05	1.28E-06	4.81E-07	2.62E-04	1.31E-04	5.70E-05	2.25E-05	2.15E-06	9.06E-07	9.60E-05	3.93E-05	1.47E-05	4.91E-06	7.64E-07	2.02E-07	7.51E-05	2.50E-05	1.60E-05	7.66E-06	5.70E-07	1.99E-07	9.54E-05	5.01E-05	1.91E-05	6.38E-06	8.90E-07	2.37E-07					
1595	414740	4819000	1.12E-04	4.87E-05	2.99E-05	1.29E-05	1.54E-06	5.74E-07	2.87E-04	1.65E-04	7.22E-05	2.45E-05	2.70E-06	1.15E-06	1.09E-04	4.78E-05	1.79E-05	5.98E-06	8.83E-07	2.50E-07	8.74E-05	2.92E-05	1.86E-05	8.62E-06	6.50E-07	2.29E-07	1.05E-05	5.95E-05	2.23E-05	7.43E-06	1.01E-06	2.64E-07					
1596	414780	4819000	1.30E-04	5.52E-05	3.05E-05	1.27E-05	1.63E-06	6.75E-07	2.82E-04	1.49E-04	5.60E-05	1.87E-05	2.72E-06	1.28E-06	1.16E-04	5.37E-05	2.02E-05	6.72E-06	9.58E-07	2.67E-07	9.47E-05	3.21E-05	2.00E-05	9.14E-06	6.99E-07	2.47E-07	1.11E-04	6.49E-05	2.24E-05	8.11E-06	1.08E-06	2.79E-07					
1597	414820	4819000	1.42E-04	7.42E-05	3.41E-05	1.18E-05	1.94E-06	6.20E-07	3.10E-04	1.64E-04	6.35E-05	2.21E-05	2.89E-06	1.45E-06	1.17E-04	5.70E-05	2.14E-05	7.72E-06	9.95E-07	2.74E-07	9.65E-05	3.37E-05	2.03E-05	9.02E-06	7.28E-07	2.54E-07	1.14E-04	6.83E-05	2.59E-05	8.54E-06	1.12E-06	2.88E-07					
1598	414860	4819000	1.37E-04	7.74E-05	3.59E-05	1.37E-05	2.17E-06	9.98E-07	3.52E-04	1.92E-04	7.48E-05	2.80E-05	4.34E-06	1.75E-06	1.10E-04	5.82E-05	2.18E-05	7.27E-06	1.18E-06	2.70E-07	9.47E-05	3.43E-05	1.98E-05	9.02E-06	7.28E-07	2.53E-07	1.16E-04	7.02E-05	2.63E-05	8.78E-06	1.14E-06	2.93E-07					
1599	414900	4819000	1.49E-04	8.53E-05	3.84E-05	1.63E-05	2.80E-06	1.26E-06	3.67E-04	2.03E-04	7.85E-05	3.23E-05	5.18E-06	2.14E-06	1.13E-04	5.97E-05	2.24E-05	7.46E-06	1.03E-06	2.80E-07	9.40E-05	3.52E-05	1.96E-05	8.91E-06	7.26E-07	2.56E-07	1.19E-04	7.23E-05	2.71E-05	9.40E-06	1.17E-06	3.00E-07					
1600	414940	4819000	2.04E-04	1.02E-04	4.03E-05	2.06E-05	3.95E-06	1.65E-06	3.70E-04	1.81E-04	8.78E-05	3.95E-05	5.83E-06	2.71E-06	1.20E-04	6.15E-05	2.30E-05	7.67E-06	1.06E-06	2.86E-07	9.39E-05	3.84E-05	1.95E-05	8.86E-06	7.41E-07	2.60E-07	1.23E-04	7.44E-05	2.79E-05	9.31E-06	1.21E-06	3.09E-07					
1601	414980	4819000	2.20E-04	1.09E-04	5.80E-05	3.28E-05	4.94E-06	2.31E-06	4.10E-04	1.96E-04	8.44E-05	4.62E-05	8.13E-06	3.50E-06	1.34E-04	6.65E-05	2.49E-05	8.31E-06	1.15E-06	3.08E-07	9.78E-05	3.98E-05	2.09E-05	9.31E-06	8.06E-07	2.80E-07	1.31E-04	7.95E-05	2.98E-05	9.94E-06	1.29E-06	3.29E-07					
1602	415020	4819000	2.39E-04	1.16E-04	6.05E-05	3.41E-05	6.69E-06	3.21E-06	4.29E-04	2.64E-04	9.97E-05	4.98E-05	8.26E-06	4.33E-06	1.40E-04	6.54E-05	2.45E-05	8.17E-06	1.17E-06	3.17E-07	1.00E-04	4.10E-05	2.07E-05	9.21E-06	8.24E-07	2.85E-07	1.33E-04	8.08E-05	3.03E-05	1.01E-05	1.32E-06	3.40E-07					
1603	415060	4819000	1.15E-04	5.90E-05	3.20E-05	1.55E-05	1.83E-06	7.42E-04	1.11E-04	1.60E-05	1.74E-05	1.11E-06	1.60E-06	1.31E-06	8.42E-06	1.40E-05	6.85E-06	2.57E-06	4.23E-06	6.88E-06	1.81E-06	3.29E-07	1.04E-06	4.11E-06	1.94E-06	7.82E-07	1.37E-06	7.98E-06	2.99E-06	9.98E-06	1.33E-06	3.46E-07					
1604	415100	4819000	3.10E-04	1.19E-04	7.19E-05	4.06E-05	8.59E-06	4.47E-06	4.78E-04	2.19E-04	1.09E-04	5.07E-05	1.57E-05	6.17E-06	2.46E-04	1.19E-04	5.21E-05	1.88E-05	2.96E-06	7.19E-07	1.20E-04	4.05E-05	2.06E-05	1.14E-06	8.81E-06	8.05E-07	2.37E-06	1.39E-04	8.05E-05	3.02E-05	1.01E-05	1.35E-06	3.46E-07				
1605	415140	4819000	2.74E-04	1.35E-04	7.82E-05	4.54E-05	2.15E-05	9.13E-06	3.33E-04	1.73E-04	8.24E-05	5.70E-05	1.88E-05	7.50E-06	1.56E-04	7.00E-05	2.63E-05	8.75E-06	1.22E-06	3.43E-07	1.09E-04	4.41E-05	2.24E-05	8.77E-06	8.85E-07	3.00E-07	1.46E-04	8.28E-05	3.10E-05	1.03E-05	1.40E-06	3.78E-07					
1606	415180	4819000	2.60E-04	1.41E-04	9.15E-05	6.18E-05	2.72E-05	1.21E-05	3.69E-04	2.08E-04	1.07E-04	7.05E-05	2.81E-05	1.08E-06	1.67E-04	7.60E-05	2.85E-05	9.50E-06	1.22E-06	3.55E-07	1.13E-04	4.51E-05	2.32E-05	8.62E-06	9.14E-07	3.08E-07	1.51E-04	8.79E-05	3.30E-05	1.10E-05	1.42E-06	3.94E-07					
1607	415220	4819000	2.11E-04	1.53E-04	1.17E-04	5.80E-05	2.15E-05	1.17E-05	5.25E-04	2.45E-04	1.01E-04	9.41E-05	3.13E-05	1.39E-05	1.77E-04	8.64E-05	3.24E-05	1.08E-05	1.23E-06	3.67E-07	1.15E-04	4.48E-05	2.35E-05	8.85E-06	9.93E-07	3.15E-07	1.54E-04	9.19E-05	3.43E-05	1.15E-05	1.44E-06	4.12E-07					
1608	415260	4819000	2.18E-04	1.26E-04	8.57E-05	5.03E-05	1.44E-05	7.62E-06	4.38E-04	2.92E-04	1.40E-04	1.03E-04	2.83E-05	1.57E-05	9.13E-05	3.42E-05	1.14E-05	1.25E-06	3.83E-07	1.17E-04	4.81E-05	2.40E-05	8.03E-06	9.64E-07	3.23E-07	1.55E-04	9.41E-05	3.58E-05	1.18E-05	1.45E-06	4.30E-07						
1609	415300	4819000	1.03E-04	5.29E-05	2.71E-05	1.16E-05	1.40E-06	5.94E-06	2.30E-04	1.03E-04	5.07E-05	2.40E-05	1.08E-05	4.23E-06	2.46E-04	1.03E-04	4.26E-05	1.56E-05	2.64E-06	7.07E-07	1.17E-04	4.21E-05	2.14E-05	1.58E-06	5.27E-07	2.54E-07	1.51E-04	8.67E-05	3.04E-05	1.25E-05	1.61E-06	4.53E-07					
16																																					

AERMOD Screening Dispersion Factors for INL Facilities

ID	Est	Easting	Northing	EIL					ESL					EDF					IRC					RESL									
				thr	3hr	24hr	Month	Annual	thr	3hr	8hr	24hr	Month	Annual	thr	3hr	8hr	24hr	Month	Annual	thr	3hr	8hr	24hr	Month	Annual							
1675	415500	4819080		1.90E-04	9.38E-05	3.52E-05	1.46E-05	2.28E-06	9.24E-07	3.55E-04	1.69E-04	6.55E-05	2.47E-05	3.43E-06	1.73E-06	2.22E-04	7.48E-05	3.26E-05	1.09E-05	4.81E-07	1.66E-04	7.52E-05	2.82E-05	9.48E-06	1.33E-06	3.78E-07	1.85E-04	8.05E-05	3.14E-05	1.05E-05	1.19E-06	5.60E-07	
1676	415540	4819080		1.96E-04	9.48E-05	3.56E-05	1.42E-05	1.88E-06	8.34E-07	3.68E-04	1.79E-04	6.72E-05	2.62E-05	3.10E-06	1.44E-06	5.54E-04	7.39E-05	3.15E-05	1.09E-05	5.05E-07	1.64E-04	7.84E-05	2.94E-05	9.80E-06	1.37E-06	3.86E-07	1.94E-04	7.80E-05	3.51E-05	1.17E-05	1.25E-06	5.93E-07	
1677	415580	4819080		2.02E-04	9.58E-05	3.60E-05	1.35E-05	1.48E-06	8.44E-07	3.82E-04	1.84E-04	6.84E-05	2.57E-05	3.20E-06	1.49E-06	5.68E-04	7.49E-05	3.18E-05	1.09E-05	5.15E-07	1.68E-04	7.94E-05	2.97E-05	9.90E-06	1.40E-06	3.97E-07	1.97E-04	7.90E-05	3.61E-05	1.19E-05	1.28E-06	6.00E-07	
1678	415620	4819080		1.84E-04	7.30E-05	2.74E-05	1.27E-05	1.74E-06	6.93E-07	3.15E-04	1.40E-04	5.56E-05	2.02E-05	2.80E-06	1.05E-06	2.65E-04	8.83E-05	3.73E-05	1.24E-05	1.23E-06	5.71E-07	1.81E-04	9.10E-05	3.41E-05	1.14E-05	1.41E-06	4.17E-07	2.11E-04	9.12E-05	4.41E-05	1.47E-05	1.54E-06	6.75E-07
1679	415660	4819080		1.51E-04	8.32E-05	3.12E-05	1.20E-05	1.56E-06	6.22E-07	3.02E-04	1.26E-04	4.90E-05	1.72E-05	2.44E-06	9.19E-07	2.12E-04	9.06E-05	3.94E-05	1.31E-05	1.30E-06	1.67E-07	1.89E-04	9.81E-05	3.68E-05	1.23E-05	1.38E-06	4.36E-07	1.71E-04	1.06E-04	4.57E-05	1.52E-05	1.50E-06	7.27E-07
1680	415700	4819080		1.41E-04	8.82E-05	3.31E-05	1.12E-05	1.32E-06	5.55E-07	2.72E-04	1.17E-04	6.42E-05	2.16E-05	1.91E-06	8.38E-07	2.81E-04	1.19E-04	4.45E-05	1.48E-05	1.61E-06	6.51E-07	1.82E-04	9.06E-05	3.40E-05	1.13E-05	1.33E-06	4.55E-07	2.29E-04	1.27E-04	4.77E-05	1.62E-05	1.78E-06	7.88E-07
1681	415740	4819080		1.42E-04	8.82E-05	3.31E-05	1.07E-05	1.09E-06	4.98E-07	2.71E-04	1.16E-04	6.08E-05	2.05E-05	1.77E-06	7.83E-07	1.23E-04	1.23E-04	4.61E-05	1.91E-05	7.03E-07	2.19E-04	7.95E-05	2.98E-05	9.93E-06	1.22E-06	4.82E-07	2.35E-04	1.04E-04	5.23E-05	1.87E-05	2.05E-06	8.61E-07	
1682	415780	4819080		1.42E-04	8.82E-05	3.31E-05	1.07E-05	1.09E-06	4.98E-07	2.71E-04	1.16E-04	6.08E-05	2.05E-05	1.77E-06	7.83E-07	1.23E-04	1.23E-04	4.61E-05	1.91E-05	7.03E-07	2.19E-04	7.95E-05	2.98E-05	9.93E-06	1.22E-06	4.82E-07	2.35E-04	1.04E-04	5.23E-05	1.87E-05	2.05E-06	8.61E-07	
1683	415820	4819080		1.37E-04	6.25E-05	2.84E-05	9.80E-06	8.86E-07	4.03E-07	2.48E-04	9.30E-05	4.70E-05	1.57E-05	1.62E-06	6.71E-07	3.81E-04	1.71E-04	6.69E-05	2.33E-05	1.78E-06	2.35E-04	8.10E-05	3.22E-05	1.14E-05	1.17E-06	5.44E-07	2.63E-04	1.36E-04	6.07E-05	2.09E-06	2.29E-07	1.03E-08	
1684	415860	4819080		1.29E-04	5.15E-05	2.70E-05	1.01E-05	8.16E-07	3.65E-07	2.19E-04	7.59E-05	3.96E-05	1.51E-06	6.06E-07	9.32E-07	1.32E-04	5.77E-05	2.22E-06	1.92E-06	9.22E-07	2.61E-04	8.71E-05	3.37E-05	1.12E-05	1.33E-06	5.80E-07	2.62E-04	1.34E-04	6.33E-05	2.35E-06	2.30E-07	1.13E-06	
1685	415900	4819080		1.16E-04	4.31E-05	2.53E-05	9.95E-06	7.38E-07	3.35E-07	1.89E-04	6.70E-05	3.15E-05	1.19E-05	1.34E-06	5.46E-07	1.41E-04	1.47E-04	5.84E-05	2.43E-06	3.26E-06	9.81E-07	2.77E-04	9.22E-05	3.72E-05	1.43E-05	1.47E-06	6.21E-07	3.08E-04	1.48E-04	6.25E-05	2.51E-06	3.06E-06	1.22E-06
1686	415940	4819080		1.10E-04	3.68E-05	2.34E-05	9.42E-06	6.97E-07	3.09E-07	1.85E-04	7.02E-05	2.63E-05	1.09E-05	1.14E-06	4.94E-07	3.98E-04	1.33E-04	7.13E-05	2.38E-06	3.48E-07	2.73E-04	9.08E-05	3.87E-05	1.92E-05	1.57E-06	6.86E-07	3.17E-04	1.46E-04	8.39E-05	2.79E-05	3.93E-06	1.32E-06	
1687	415980	4819080		1.02E-04	3.42E-05	2.15E-05	8.64E-06	7.01E-07	2.84E-07	1.22E-04	6.95E-05	2.81E-05	1.02E-05	9.80E-07	4.54E-07	1.42E-04	1.74E-04	7.72E-05	2.95E-05	3.12E-06	1.17E-06	1.15E-04	5.30E-05	2.19E-05	1.21E-06	7.77E-07	3.43E-04	1.79E-04	1.02E-04	3.40E-05	4.51E-06	1.42E-06	
1688	416020	4819080		9.42E-05	3.01E-05	1.92E-05	7.45E-06	6.18E-07	2.44E-07	1.21E-04	6.09E-05	2.25E-05	8.24E-06	8.04E-07	3.98E-07	1.31E-04	5.90E-05	2.82E-05	3.22E-06	1.52E-06	3.40E-04	1.40E-04	5.41E-05	1.87E-05	2.11E-06	1.03E-06	3.69E-04	1.96E-04	8.54E-05	2.85E-05	4.13E-06	1.37E-06	
1689	416060	4819080		7.86E-05	3.01E-05	1.74E-05	6.40E-06	6.09E-07	2.44E-07	1.21E-04	6.09E-05	2.25E-05	8.24E-06	8.04E-07	3.98E-07	1.31E-04	5.90E-05	2.82E-05	3.22E-06	1.52E-06	3.40E-04	1.40E-04	5.41E-05	1.87E-05	2.11E-06	1.03E-06	3.69E-04	1.96E-04	8.54E-05	2.85E-05	4.13E-06	1.37E-06	
1690	416100	4819080		6.83E-05	2.74E-05	1.50E-05	5.57E-06	6.40E-07	2.30E-07	1.25E-04	5.80E-05	2.18E-05	8.60E-06	8.00E-07	3.84E-07	1.15E-04	6.93E-05	2.72E-06	4.11E-06	1.90E-06	3.59E-04	1.36E-04	7.19E-05	2.41E-06	3.48E-06	1.23E-06	3.42E-04	1.82E-04	7.22E-05	3.51E-06	4.16E-06	1.86E-06	
1691	416140	4819080		6.67E-05	2.54E-05	1.28E-05	5.59E-06	6.07E-07	2.18E-07	1.23E-04	5.50E-05	2.16E-05	8.81E-06	7.83E-07	3.67E-07	4.71E-04	2.09E-04	8.37E-05	3.62E-05	6.15E-06	2.44E-06	3.67E-04	1.77E-04	7.29E-05	3.00E-05	3.65E-06	1.45E-06	3.83E-04	1.82E-04	7.54E-05	3.75E-05	5.16E-06	2.19E-06
1692	416180	4819080		6.73E-05	2.39E-05	1.05E-05	5.36E-06	5.69E-07	2.07E-07	1.16E-04	5.28E-05	2.21E-05	8.85E-06	7.53E-07	3.51E-07	4.54E-04	1.64E-04	7.30E-05	4.23E-05	7.13E-06	1.41E-06	4.31E-04	1.59E-04	5.97E-05	2.70E-05	3.50E-06	1.86E-06	3.97E-04	2.07E-04	1.00E-04	4.25E-05	6.76E-06	2.67E-06
1693	416220	4819080		6.69E-05	2.33E-05	8.82E-06	5.08E-06	5.30E-07	1.97E-07	1.07E-04	4.91E-05	2.23E-05	8.75E-06	1.35E-07	3.33E-07	3.75E-04	1.61E-04	6.29E-05	2.89E-05	6.99E-06	3.81E-06	4.91E-04	1.23E-04	1.57E-04	4.63E-06	7.08E-06	3.03E-06	3.89E-04	1.87E-04	8.58E-05	5.06E-05	8.05E-06	3.27E-06
1694	416260	4819080		6.61E-05	2.14E-05	9.14E-06	4.80E-06	5.88E-07	1.88E-07	1.07E-04	4.91E-05	2.23E-05	8.75E-06	1.35E-07	3.33E-07	3.75E-04	1.61E-04	6.29E-05	2.89E-05	6.99E-06	3.81E-06	4.91E-04	1.23E-04	1.57E-04	4.63E-06	7.08E-06	3.03E-06	3.89E-04	1.87E-04	8.58E-05	5.06E-05	8.05E-06	3.27E-06
1695	416300	4819080		6.36E-05	2.12E-05	9.06E-06	4.43E-06	4.81E-07	1.81E-07	9.60E-05	4.24E-05	2.12E-05	8.25E-06	6.43E-07	3.00E-07	4.57E-04	1.61E-04	8.56E-05	3.68E-05	9.70E-06	5.76E-06	7.21E-04	2.83E-04	1.59E-04	6.32E-05	1.41E-05	7.62E-06	3.79E-04	2.22E-04	1.18E-04	4.59E-06	6.06E-06	4.77E-06
1696	416340	4819080		6.11E-05	2.04E-05	9.03E-06	4.06E-06	4.60E-07	1.74E-07	9.20E-05	3.86E-05	2.05E-05	7.92E-06	6.36E-07	2.87E-07	4.36E-04	1.62E-04	8.99E-05	4.47E-05	1.00E-06	6.74E-06	6.90E-04	2.65E-04	1.39E-04	6.75E-05	1.74E-05	1.14E-05	3.87E-04	2.17E-04	1.17E-04	4.21E-05	9.79E-06	5.57E-06
1697	416380	4819080		5.84E-05	1.95E-05	8.95E-06	3.70E-06	4.38E-07	1.68E-07	8.73E-05	3.56E-05	1.98E-05	7.62E-06	6.43E-07	2.76E-07	4.07E-04	1.42E-04	8.05E-05	4.75E-05	1.09E-05	7.25E-06	5.83E-04	2.45E-04	1.31E-04	7.36E-05	2.01E-05	1.34E-05	3.71E-04	2.07E-04	1.14E-04	5.00E-05	1.08E-05	6.41E-06
1698	416420	4819080		5.54E-05	1.85E-05	8.84E-06	3.38E-06	4.17E-07	6.3E-07	8.09E-05	3.53E-05	1.91E-05	7.31E-06	6.53E-07	2.69E-07	4.38E-04	1.83E-04	9.07E-05	4.00E-05	1.09E-05	7.59E-06	4.34E-04	2.33E-04	1.23E-04	5.75E-05	1.91E-05	1.35E-05	3.54E-04	1.92E-04	1.24E-04	5.06E-05	1.12E-05	7.19E-06
1699	416460	4819080		5.24E-05	1.74E-05	8.73E-06	3.12E-06	4.06E-07	6.09E-07	7.79E-05	3.40E-05	1.87E-05	7.02E-06	6.24E-07	2.62E-07	4.49E-04	1.85E-04	8.87E-05	3.90E-05	1.09E-05	7.59E-06	4.34E-04	2.33E-04	1.23E-04	5.75E-05	1.91E-05	1.35E-05	3.54E-04	1.92E-04	1.24E-04	5.06E-05	1.12E-05	7.19E-06
1700	416500	4819080		5.11E-05	1.70E-05	8.47E-06	2.89E-06	3.82E-07	1.54E-07	7.19E-05	3.42E-05	1.73E-05	6.82E-06	6.55E-07	2.46E-07	4.27E-04	1.69E-04	1.04E-04	4.07E-05	1.10E-05	7.03E-06	3.02E-04	1.49E-04	6.96E-05	3.97E-05	1.31E-05	6.83E-06	3.58E-04	2.06E-04	1.01E-04	4.98E-05	1.17E-05	7.88E-06
1701	416540	4819080		4.93E-05	1.65E-05	8.23E-06	2.72E-06	3.67E-07	1.49E-07	7.07E-05	3.33E-05	1.64E-05	6.26E-06	6.49E-07	2.36E-07	3.69E-04	1.34E-04	8.28E-05	4.19E-05	9.34E-06	6.30E-06	3.17E-04	1.79E-04	7.16E-05	3.12E-05	9.70E-06	6.17E-06	3.48E-04	2.00E-04	1.20E-04	4.58E-05	1.14E-05	7.70E-06
1702	416580	4819080		4.74E-05	1.59E-05	7.97E-06	2.57E-06	3.54E-07	1.45E-07	6.91E-05	3.23E-05	1.54E-05	5.89E-06	6.39E-07	2.26E-07	2.94E-04	1.28E-04	6.30E-05	3.75E-05	8.49E-06	5.42E-06	2.77E-04	1.18E-04	5.45E-05	2.63E-05	7.28E-06	4.41E-06	3.36E-04	1.99E-04	1.29E-04	4.88E-05	1.09E-05	7.20E-06
1703	416620	4819080		4.56E-05	1.54E-05	7.71E-06	2.43E-06	3.42E-07	1.40E-07	6.92E-05	3.12E-05	1.45E-05	5.53E-06	6.27E-07	2.17E-07	1.19E-04	1.62E-04	6.23E-05	3.59E-05	7.8													

ID	Easting	North	EIL					ESL					IEDF					IRC					RESL									
			1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual						
1768	416780	4819120	4.47E-05	1.54E-05	6.05E-06	2.28E-06	3.66E-07	1.34E-07	7.13E-05	2.48E-05	1.14E-05	5.35E-06	5.64E-07	2.02E-07	2.64E-04	9.43E-05	4.25E-05	1.89E-05	4.30E-06	2.39E-06	2.19E-04	9.98E-05	3.86E-05	1.49E-05	3.52E-06	1.73E-06	2.53E-04	1.54E-04	6.31E-04	2.40E-05	6.04E-06	3.98E-06
1769	416820	4819120	4.28E-05	1.46E-05	5.67E-06	2.26E-06	3.56E-07	1.27E-07	6.89E-05	2.29E-05	1.05E-05	5.08E-06	5.29E-07	1.88E-07	2.64E-04	9.32E-05	4.17E-05	1.57E-05	4.31E-06	2.05E-06	2.08E-04	9.61E-05	4.39E-05	1.47E-05	3.12E-06	1.48E-06	2.43E-04	1.47E-04	6.17E-05	2.52E-05	5.32E-06	3.08E-06
1770	416860	4819120	4.12E-05	1.39E-05	5.43E-06	2.20E-06	3.48E-07	1.24E-07	6.64E-05	2.22E-05	1.03E-05	4.95E-06	5.14E-07	1.82E-07	2.61E-04	9.18E-05	4.10E-05	1.53E-05	4.24E-06	2.02E-06	2.03E-04	9.45E-05	4.30E-05	1.45E-05	3.02E-06	1.45E-06	2.40E-04	1.45E-04	6.08E-05	2.50E-05	5.25E-06	3.03E-06
1771	416900	4819120	1.50E-04	4.99E-05	2.12E-05	1.07E-05	1.23E-06	3.10E-07	1.85E-04	6.68E-05	2.90E-05	1.31E-05	1.23E-06	4.72E-07	7.82E-05	4.19E-05	1.57E-05	5.24E-06	6.94E-07	1.84E-07	6.94E-05	2.74E-05	1.35E-05	5.69E-06	5.22E-07	1.76E-07	8.20E-05	4.93E-05	1.85E-05	6.16E-06	7.70E-07	1.93E-07
1772	414500	4819160	1.54E-04	5.14E-05	2.74E-05	1.31E-05	1.47E-06	3.50E-07	1.94E-04	7.31E-05	3.00E-05	1.35E-05	1.29E-06	5.06E-07	7.81E-05	4.23E-05	1.62E-05	5.40E-06	7.10E-07	1.87E-07	7.02E-05	2.78E-05	1.38E-05	5.62E-06	5.34E-07	1.79E-07	8.43E-05	5.08E-05	1.90E-05	6.35E-06	7.90E-07	1.98E-07
1773	414540	4819160	1.64E-04	5.46E-05	3.20E-05	1.57E-05	1.67E-06	3.82E-07	2.05E-04	7.87E-05	2.97E-05	1.46E-05	1.36E-06	5.41E-07	8.05E-05	4.42E-05	1.66E-05	5.53E-06	7.24E-07	1.90E-07	7.07E-05	2.80E-05	1.44E-05	5.52E-06	5.45E-07	1.81E-07	8.62E-05	5.20E-05	1.95E-05	6.50E-06	8.07E-07	2.02E-07
1774	414580	4819160	1.66E-04	5.54E-05	3.80E-05	1.74E-05	1.82E-06	4.17E-07	2.14E-04	8.15E-05	3.19E-05	1.47E-05	1.42E-06	5.70E-07	8.13E-05	4.45E-05	1.67E-05	5.58E-06	7.29E-07	1.91E-07	7.01E-05	2.78E-05	1.41E-05	5.33E-06	5.48E-07	1.81E-07	8.69E-05	5.24E-05	1.96E-05	6.54E-06	8.16E-07	2.04E-07
1775	414620	4819160	1.61E-04	5.33E-05	3.53E-05	1.65E-05	1.78E-06	4.01E-07	2.04E-04	7.84E-05	3.04E-05	1.45E-05	1.39E-06	5.30E-07	7.94E-05	4.38E-05	1.65E-05	5.50E-06	7.24E-07	1.89E-07	6.98E-05	2.75E-05	1.40E-05	5.40E-06	5.37E-07	1.79E-07	8.58E-05	5.18E-05	1.92E-05	6.48E-06	8.02E-07	2.01E-07
1776	414660	4819160	1.76E-04	5.85E-05	4.25E-05	2.03E-05	2.04E-06	5.03E-07	2.24E-04	7.87E-05	3.44E-05	1.70E-05	1.59E-06	6.98E-07	8.96E-05	4.51E-05	1.69E-05	5.64E-06	7.47E-07	1.96E-07	7.01E-05	2.77E-05	1.43E-05	5.50E-06	5.69E-07	1.84E-07	8.82E-05	5.30E-05	1.99E-05	6.63E-06	8.37E-07	2.11E-07
1777	414700	4819160	2.02E-04	6.74E-05	4.29E-05	2.01E-05	2.05E-06	5.65E-07	2.61E-04	8.89E-05	3.46E-05	2.19E-05	1.86E-06	7.31E-07	8.56E-05	4.51E-05	1.73E-05	5.77E-06	7.66E-07	2.02E-07	7.11E-05	2.79E-05	1.45E-05	4.97E-06	5.90E-07	1.88E-07	8.98E-05	5.38E-05	2.02E-06	6.73E-06	8.59E-07	2.18E-07
1778	414740	4819160	2.23E-04	8.43E-05	4.09E-05	1.98E-05	2.10E-06	6.52E-07	2.92E-04	9.73E-05	4.12E-05	2.28E-05	2.56E-06	8.80E-07	9.22E-04	9.68E-05	1.86E-05	6.20E-06	8.29E-07	2.19E-07	7.83E-05	2.97E-05	1.56E-05	5.20E-06	6.45E-07	2.04E-07	9.66E-05	5.74E-05	2.15E-06	7.18E-06	9.24E-07	2.36E-07
1779	414780	4819160	2.91E-04	9.69E-05	3.82E-05	1.89E-05	2.11E-06	7.62E-07	3.34E-04	1.11E-04	5.16E-05	3.20E-05	3.38E-06	1.09E-04	1.04E-04	5.68E-05	2.13E-06	7.10E-06	9.42E-07	2.48E-07	9.30E-05	3.32E-05	1.74E-05	5.81E-06	7.56E-07	2.34E-07	1.09E-04	6.28E-05	2.35E-06	7.85E-06	1.02E-06	2.61E-07
1780	414820	4819160	3.00E-04	1.00E-04	3.81E-05	1.57E-05	1.98E-06	8.42E-07	3.29E-04	1.27E-04	5.71E-05	3.07E-05	3.68E-06	1.28E-04	1.14E-04	5.90E-05	2.21E-07	7.37E-06	8.98E-07	2.63E-07	9.03E-05	3.37E-05	1.79E-05	5.97E-06	7.99E-07	2.44E-07	1.16E-04	6.50E-05	2.44E-05	8.12E-06	1.05E-06	2.74E-07
1781	414860	4819160	3.05E-04	1.02E-04	3.85E-05	1.58E-05	1.99E-06	8.47E-07	3.32E-04	1.29E-04	5.74E-05	3.08E-05	3.70E-06	1.29E-04	1.15E-04	5.94E-05	2.22E-07	7.40E-06	8.98E-07	2.65E-07	9.05E-05	3.39E-05	1.80E-05	5.99E-06	7.99E-07	2.44E-07	1.16E-04	6.52E-05	2.44E-05	8.12E-06	1.05E-06	2.74E-07
1782	414900	4819160	3.28E-04	1.02E-04	3.82E-05	2.05E-05	2.41E-06	1.08E-06	3.92E-04	1.22E-04	5.72E-05	3.05E-05	4.12E-06	1.84E-06	1.21E-04	6.39E-05	2.40E-05	7.99E-06	9.68E-07	2.71E-07	1.02E-04	3.37E-05	1.74E-05	5.97E-06	8.24E-07	2.47E-07	1.19E-04	6.99E-05	2.62E-05	8.74E-06	1.06E-06	2.88E-07
1783	414940	4819160	2.05E-04	8.84E-05	4.82E-05	2.29E-05	2.99E-06	1.29E-06	3.81E-04	2.03E-04	7.88E-05	3.58E-05	4.28E-06	2.22E-06	1.21E-04	6.63E-05	2.49E-05	8.29E-06	9.56E-07	2.78E-07	1.02E-04	3.95E-05	1.69E-05	5.65E-06	8.32E-07	2.48E-07	1.19E-04	7.12E-05	2.67E-05	8.90E-06	1.05E-06	2.96E-07
1784	414980	4819160	2.30E-04	9.15E-05	5.50E-05	2.46E-05	3.33E-06	1.66E-06	4.98E-04	2.83E-04	1.12E-04	3.99E-05	7.43E-06	2.87E-06	1.19E-04	6.80E-05	2.55E-05	8.50E-06	9.55E-07	2.86E-07	1.04E-04	4.22E-05	1.66E-05	5.54E-06	8.57E-07	2.52E-07	1.21E-04	7.72E-05	2.71E-05	9.02E-06	1.05E-06	3.07E-07
1785	415020	4819160	1.86E-04	1.07E-04	6.04E-05	2.81E-05	1.57E-06	2.41E-06	4.50E-04	2.55E-04	1.15E-04	6.15E-05	8.77E-06	3.95E-06	1.14E-04	6.69E-05	2.51E-05	8.38E-06	9.48E-07	2.93E-07	1.04E-04	4.48E-05	1.68E-05	5.60E-06	8.82E-07	2.57E-07	1.24E-04	7.81E-05	2.70E-05	9.01E-06	1.05E-06	3.18E-07
1786	415060	4819160	1.92E-04	1.09E-04	6.15E-05	2.86E-05	1.59E-06	2.45E-06	4.58E-04	2.59E-04	1.16E-04	6.20E-05	8.82E-06	3.98E-06	1.15E-04	6.74E-05	2.53E-05	8.48E-06	9.58E-07	2.95E-07	1.05E-04	4.56E-05	1.69E-05	5.63E-06	8.85E-07	2.59E-07	1.25E-04	7.88E-05	2.71E-05	8.88E-06	1.05E-06	3.18E-07
1787	415100	4819160	2.26E-04	1.15E-04	6.49E-05	3.05E-05	1.68E-06	2.69E-06	4.89E-04	2.78E-04	1.19E-04	6.32E-05	8.80E-06	4.01E-06	1.17E-04	6.98E-05	2.58E-05	8.60E-06	9.73E-07	3.02E-07	1.06E-04	4.63E-05	1.70E-05	5.65E-06	8.96E-07	2.62E-07	1.26E-04	7.91E-05	2.71E-05	9.03E-06	1.05E-06	3.18E-07
1788	415140	4819160	3.08E-04	1.13E-04	6.20E-05	2.73E-05	1.22E-06	3.68E-06	2.69E-04	1.43E-04	8.27E-05	2.63E-05	1.14E-05	1.39E-04	5.74E-04	2.15E-05	7.17E-06	8.93E-07	3.29E-07	1.07E-04	5.26E-05	1.97E-05	5.67E-06	9.95E-07	2.79E-07	1.39E-04	6.57E-05	2.47E-05	8.22E-06	1.02E-06	3.58E-07	
1789	415180	4819160	3.07E-04	1.18E-04	1.33E-04	8.98E-05	4.31E-05	2.20E-05	1.51E-04	2.46E-04	1.35E-04	9.36E-05	2.81E-05	1.54E-05	1.49E-04	5.69E-05	2.13E-05	7.11E-06	8.96E-07	3.41E-07	1.16E-04	5.48E-05	2.05E-05	6.84E-06	1.03E-06	2.87E-07	1.43E-04	6.93E-05	2.60E-05	8.67E-06	1.00E-06	3.73E-07
1790	415220	4819160	2.61E-04	1.64E-04	1.17E-04	7.41E-05	2.89E-05	1.41E-05	8.04E-04	3.42E-04	2.23E-04	1.13E-04	4.92E-05	2.37E-05	1.57E-04	6.78E-05	2.17E-05	7.22E-06	8.38E-07	3.54E-07	1.22E-04	5.73E-05	2.15E-05	7.16E-06	1.09E-06	2.94E-07	1.48E-04	7.18E-05	2.69E-05	8.97E-06	9.83E-07	3.88E-07
1791	415260	4819160	2.89E-04	1.30E-04	7.09E-05	3.83E-05	1.39E-06	3.56E-06	6.20E-04	3.73E-04	2.31E-04	1.26E-04	4.01E-05	2.16E-05	1.58E-04	6.12E-05	2.30E-06	7.67E-06	8.36E-07	3.67E-07	1.26E-04	6.00E-05	2.25E-05	7.49E-06	1.09E-06	3.02E-07	1.50E-04	7.28E-05	2.73E-05	9.10E-06	9.62E-07	4.04E-07
1792	415300	4819160	2.71E-04	1.62E-04	1.17E-04	7.41E-05	2.89E-05	1.41E-05	8.04E-04	3.42E-04	2.23E-04	1.13E-04	4.92E-05	2.37E-05	1.57E-04	6.78E-05	2.17E-05	7.22E-06	8.38E-07	3.54E-07	1.22E-04	5.73E-05	2.15E-05	7.16E-06	1.09E-06	2.94E-07	1.48E-04	7.18E-05	2.69E-05	8.97E-06	9.83E-07	3.88E-07
1793	415340	4819160	2.23E-04	1.01E-04	4.17E-05	1.90E-05	6.18E-06	2.09E-06	5.82E-04	2.82E-04	1.42E-04	6.68E-05	1.21E-05	6.09E-06	1.67E-04	6.29E-05	2.56E-05	8.52E-06	8.95E-07	3.95E-07	1.26E-04	6.20E-05	2.32E-05	7.75E-06	1.12E-06	3.17E-07	1.56E-04	6.99E-05	2.62E-05	8.74E-06	9.45E-07	4.39E-07
1794	415380	4819160	2.27E-04	1.27E-04	4.80E-05	1.93E-05	4.80E-06	1.73E-06	5.37E-04	2.30E-04	9.44E-05	3.47E-05	6.72E-06	3.66E-06	1.84E-04	6.12E-05	2.69E-05	8.96E-06	9.43E-07	1.10E-04	3.18E-04	6.67E-05	2.50E-05	8.33E-06	1.14E-06	3.28E-07	1.62E-04	6.66E-05	2.73E-05	9.09E-06	9.94E-07	4.60E-07
1795	415420	4819160	2.86E-04	1.14E-04	4.82E-05	1.77E-05	6.88E-06	1.48E-06	4.36E-04	2.06E-04	8.74E-05	3.26E-05	5.35E-06	2.61E-06	1.97E-04	6.57E-05	2.48E-05	8.27E-06	9.41E-07	4.25E-07	1.42E-04	7.36E-05	2.76E-05	9.20E-06	1.14E-06	3.34E-07	1.68E-04	6.61E-05	2.95E-05	9.82E-06	1.05E-06	4.82E-07
1796	415460	4819160	2.49E-04	1.08E-04	4.07E-05	1.87E-05	2.83E-06	1.26E-06	4.28E-04	2.30E-04	8.63E-05	2.93E-05	4.71E-06	2.04E-06	1.89E-04	6.28E-05																

AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IRC	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
1861	415620	4819200	1.51E-04	5.49E-05	2.84E-05	1.30E-05	1.56E-06	6.38E-07	2.94E-04	1.09E-04	4.99E-05	1.93E-05	2.37E-06	9.96E-07	2.56E-04	8.80E-05	3.30E-05	1.49E-05	1.62E-06	5.73E-07	1.69E-04	6.23E-05	2.65E-05	8.83E-06	8.58E-07	3.94E-07	1.94E-04	1.10E-04	4.14E-05	1.48E-05	1.58E-06	6.52E-07					
1862	415660	4819200	1.48E-04	4.93E-05	2.31E-05	1.19E-05	1.44E-06	5.04E-07	2.29E-04	1.16E-04	4.36E-05	1.58E-05	1.98E-06	8.45E-07	2.40E-04	1.02E-04	4.12E-05	1.39E-05	1.64E-06	6.26E-07	1.96E-04	6.53E-05	2.62E-05	8.72E-06	9.28E-07	4.13E-07	2.06E-04	1.04E-04	4.02E-05	1.50E-05	1.68E-06	7.01E-07					
1863	415700	4819200	1.41E-04	4.71E-05	2.17E-05	1.08E-05	1.33E-06	5.04E-07	2.12E-04	1.15E-04	4.30E-05	1.45E-05	1.83E-06	7.29E-07	2.92E-04	1.31E-04	5.07E-05	1.69E-05	1.40E-06	6.06E-07	1.99E-04	6.64E-05	2.55E-05	8.51E-06	9.52E-07	4.26E-07	2.12E-04	1.07E-04	4.62E-05	1.60E-05	1.69E-06	7.55E-07					
1864	415740	4819200	1.32E-04	4.40E-05	1.98E-05	9.59E-06	1.22E-06	4.54E-07	2.01E-04	9.69E-05	3.63E-05	1.29E-05	1.35E-06	6.41E-07	2.83E-04	1.19E-04	4.55E-05	1.52E-05	1.49E-06	7.03E-07	2.05E-04	6.82E-05	3.31E-05	1.04E-05	1.02E-06	4.50E-07	2.25E-04	1.26E-04	4.84E-05	1.79E-05	1.58E-06	8.10E-07					
1865	415780	4819200	1.29E-04	4.20E-05	1.83E-05	8.26E-06	1.11E-06	4.14E-07	1.95E-04	7.68E-05	3.18E-05	1.40E-05	1.26E-06	5.76E-07	2.97E-04	1.14E-04	5.05E-05	1.93E-05	2.04E-06	7.60E-07	2.18E-04	7.27E-05	3.09E-05	1.21E-05	1.03E-06	4.78E-07	2.32E-04	1.23E-04	4.81E-05	1.92E-05	2.02E-06	8.66E-07					
1866	415820	4819200	1.21E-04	4.04E-05	1.71E-05	6.96E-06	1.01E-06	3.80E-07	1.74E-04	7.09E-05	3.01E-05	1.42E-05	1.17E-06	5.33E-07	2.36E-04	1.12E-04	4.21E-05	1.52E-05	2.81E-06	7.96E-07	1.82E-04	6.95E-05	3.36E-05	1.39E-05	1.31E-06	5.16E-07	2.37E-04	1.13E-04	5.37E-05	1.96E-05	2.57E-06	9.25E-07					
1867	415860	4819200	1.15E-04	3.82E-05	1.59E-05	5.75E-06	9.14E-07	3.25E-07	1.61E-04	5.88E-05	2.81E-05	1.34E-05	1.06E-06	4.94E-07	2.72E-04	1.07E-04	5.46E-05	1.82E-05	2.72E-06	8.52E-07	2.21E-04	6.98E-05	3.71E-05	1.53E-05	1.67E-06	5.57E-07	2.48E-04	1.16E-04	6.78E-05	2.26E-05	3.09E-06	9.82E-07					
1868	415900	4819200	1.07E-04	3.58E-05	1.46E-05	5.22E-06	8.19E-07	3.23E-07	1.43E-04	5.43E-05	2.61E-05	1.21E-05	9.33E-07	4.58E-07	2.20E-04	1.11E-04	6.96E-05	2.32E-05	2.61E-06	8.91E-07	2.35E-04	9.88E-05	4.02E-05	1.54E-05	1.84E-06	6.06E-07	2.63E-04	1.37E-04	7.91E-05	2.64E-05	3.42E-06	1.04E-06					
1869	415940	4819200	1.02E-04	3.41E-05	1.37E-05	5.05E-06	7.35E-07	3.00E-07	1.22E-04	5.23E-05	2.40E-05	1.05E-05	8.94E-07	4.30E-07	3.56E-04	1.33E-04	5.31E-05	2.11E-05	2.25E-06	9.35E-07	2.79E-04	1.23E-04	4.79E-05	1.61E-05	1.52E-06	6.65E-07	2.58E-04	1.45E-04	8.23E-05	2.74E-05	3.42E-06	1.09E-06					
1870	415980	4819200	9.92E-05	3.28E-05	1.32E-05	4.87E-06	6.82E-07	2.78E-07	9.99E-05	4.93E-05	2.15E-05	9.39E-06	8.74E-07	3.97E-07	2.87E-04	1.01E-04	3.95E-05	1.84E-05	2.17E-06	1.05E-07	2.66E-04	9.24E-05	4.02E-05	1.89E-05	1.78E-06	7.33E-07	2.91E-04	1.45E-04	7.42E-05	2.47E-05	3.19E-06	1.16E-06					
1871	416020	4819200	9.39E-05	3.13E-05	1.26E-05	4.65E-06	6.48E-07	2.59E-07	9.81E-05	4.58E-05	1.83E-05	8.55E-06	8.36E-07	3.69E-07	3.31E-04	1.29E-04	4.85E-05	2.37E-05	2.77E-06	1.23E-06	2.91E-04	1.05E-04	5.29E-05	1.77E-05	2.69E-06	8.18E-07	2.85E-04	1.57E-04	5.95E-05	2.19E-05	3.02E-06	1.28E-06					
1872	416060	4819200	8.83E-05	2.98E-05	1.21E-05	4.43E-06	6.16E-07	2.43E-07	9.85E-05	4.23E-05	1.69E-05	7.99E-06	8.17E-07	3.49E-07	3.91E-04	1.40E-04	5.83E-05	2.39E-05	3.30E-06	1.48E-06	2.84E-04	1.18E-04	5.53E-05	2.03E-05	2.49E-06	8.78E-07	2.88E-04	1.54E-04	5.59E-05	2.88E-05	3.16E-06	1.42E-06					
1873	416100	4819200	8.44E-05	2.82E-05	1.15E-05	4.21E-06	5.86E-07	2.30E-07	9.62E-05	4.13E-05	1.61E-05	7.47E-06	8.01E-07	3.38E-07	3.60E-04	1.61E-04	7.07E-05	3.01E-05	4.65E-06	1.77E-06	3.38E-04	1.41E-04	5.43E-05	2.22E-05	1.93E-06	9.87E-07	3.07E-04	1.47E-04	6.01E-05	2.98E-05	3.85E-06	1.63E-06					
1874	416140	4819200	7.95E-05	2.65E-05	1.09E-05	4.00E-06	5.58E-07	2.18E-07	9.53E-05	4.03E-05	1.62E-05	7.06E-06	7.85E-07	3.24E-07	3.31E-04	1.29E-04	5.40E-05	2.98E-05	5.23E-06	2.11E-06	3.16E-04	1.15E-04	4.43E-05	2.17E-05	2.19E-06	1.17E-06	3.04E-04	1.56E-04	7.73E-05	3.24E-05	4.83E-06	1.89E-06					
1875	416180	4819200	7.48E-05	2.49E-05	1.03E-05	3.79E-06	5.34E-07	2.08E-07	9.36E-05	3.89E-05	1.61E-05	6.61E-06	7.71E-07	3.14E-07	3.13E-04	1.59E-04	6.27E-05	3.21E-05	5.64E-06	2.48E-06	3.69E-04	1.30E-04	6.99E-05	2.89E-05	3.68E-06	1.63E-06	3.19E-04	1.64E-04	7.75E-05	3.66E-05	5.72E-06	2.20E-06					
1876	416220	4819200	6.99E-05	2.33E-05	9.64E-06	3.54E-06	5.09E-07	1.98E-07	9.18E-05	3.72E-05	1.59E-05	6.13E-06	7.52E-07	3.04E-07	3.65E-04	1.73E-04	6.82E-05	2.60E-05	5.80E-06	2.30E-06	4.52E-04	1.94E-04	8.98E-05	3.76E-05	6.13E-06	3.14E-06	3.14E-04	1.53E-04	4.21E-05	6.31E-06	2.55E-06						
1877	416260	4819200	6.51E-05	2.17E-05	9.10E-06	3.34E-06	4.89E-07	1.90E-07	9.03E-05	3.53E-05	1.56E-05	5.97E-06	7.32E-07	2.93E-07	2.96E-04	1.40E-04	6.08E-05	2.78E-05	6.48E-06	3.39E-06	4.15E-04	2.07E-04	8.89E-05	3.65E-05	6.24E-06	3.12E-06	3.07E-04	2.03E-04	4.89E-05	6.52E-06	2.93E-06						
1878	416300	4819200	6.06E-05	2.11E-05	8.55E-06	3.14E-06	4.71E-07	1.82E-07	8.86E-05	3.32E-05	1.53E-05	5.65E-06	7.09E-07	2.83E-07	3.48E-04	1.61E-04	8.13E-05	2.83E-05	6.94E-06	3.97E-06	5.10E-04	1.83E-04	1.06E-04	5.88E-05	4.31E-06	3.07E-04	1.80E-04	9.27E-05	6.36E-06	3.35E-06							
1879	416340	4819200	5.62E-05	2.11E-05	8.45E-06	2.99E-06	4.55E-07	1.75E-07	8.75E-05	3.13E-05	1.49E-05	5.53E-06	6.86E-07	2.73E-07	3.44E-04	1.24E-04	7.22E-05	3.29E-05	7.05E-06	4.43E-06	5.45E-04	2.28E-04	1.16E-04	4.70E-05	9.86E-06	5.80E-06	3.15E-04	1.69E-04	9.59E-05	3.51E-06	7.00E-06	3.80E-06					
1880	416380	4819200	5.23E-05	2.10E-05	8.46E-06	2.90E-06	4.41E-07	1.69E-07	8.60E-05	2.99E-05	1.45E-05	5.40E-06	6.63E-07	2.65E-07	3.33E-04	1.37E-04	7.30E-05	3.62E-05	7.50E-06	4.98E-06	4.47E-04	1.82E-04	9.70E-05	5.08E-05	1.03E-05	7.08E-06	3.08E-04	1.79E-04	9.37E-05	3.36E-06	7.76E-06	4.26E-06					
1881	416420	4819200	4.75E-05	2.10E-05	8.48E-06	2.83E-06	4.29E-07	1.64E-07	8.43E-05	2.94E-05	1.41E-05	5.29E-06	6.40E-07	2.57E-07	3.01E-04	1.23E-04	6.73E-05	3.88E-05	7.08E-06	5.42E-06	4.30E-04	1.70E-04	9.08E-05	4.82E-05	1.11E-05	7.93E-06	3.08E-04	1.66E-04	9.58E-05	4.21E-05	8.18E-06	4.72E-06					
1882	416460	4819200	4.47E-05	2.09E-05	8.48E-06	2.83E-06	4.18E-07	1.59E-07	8.25E-05	2.89E-05	1.37E-05	5.09E-06	6.21E-07	2.50E-07	2.79E-04	1.36E-04	6.81E-05	3.10E-05	8.05E-06	5.25E-06	4.30E-04	1.62E-04	8.92E-05	4.76E-05	1.05E-05	8.16E-06	2.99E-04	1.53E-04	9.71E-05	4.70E-05	8.17E-06	5.07E-06					
1883	416500	4819200	4.28E-05	2.08E-05	8.48E-06	2.83E-06	4.09E-07	1.55E-07	8.02E-05	2.84E-05	1.34E-05	4.93E-06	6.11E-07	2.42E-07	3.24E-04	1.42E-04	6.98E-05	3.09E-05	8.40E-06	5.24E-06	4.14E-04	1.64E-04	9.18E-05	4.71E-05	1.10E-05	7.93E-06	2.98E-04	1.53E-04	9.71E-05	4.70E-05	8.17E-06	5.07E-06					
1884	416540	4819200	4.11E-05	2.07E-05	8.48E-06	2.83E-06	3.99E-07	1.51E-07	7.80E-05	2.79E-05	1.28E-05	4.75E-06	6.05E-07	2.36E-07	2.85E-04	1.36E-04	8.37E-05	3.25E-05	7.67E-06	5.25E-06	3.46E-04	1.36E-04	7.53E-05	3.26E-05	9.99E-06	6.97E-06	2.76E-04	1.68E-04	7.79E-05	3.88E-05	8.20E-06	5.47E-06					
1885	416580	4819200	4.06E-05	2.05E-05	8.46E-06	2.82E-06	3.92E-07	1.47E-07	7.55E-05	2.74E-05	1.24E-05	4.57E-06	5.98E-07	2.29E-07	3.27E-04	1.33E-04	8.42E-05	3.23E-05	7.22E-06	4.93E-06	2.71E-04	1.12E-04	5.86E-05	3.33E-05	8.74E-06	5.82E-06	2.87E-04	1.61E-04	7.99E-05	3.46E-05	8.06E-06	5.41E-06					
1886	416620	4819200	4.03E-05	2.04E-05	8.44E-06	2.81E-06	3.88E-07	1.44E-07	7.32E-05	2.69E-05	1.19E-05	4.38E-06	5.91E-07	2.23E-07	2.81E-04	1.11E-04	6.57E-05	3.22E-05	6.77E-06	4.47E-06	3.38E-04	1.27E-04	5.36E-05	2.43E-05	7.42E-06	4.65E-06	2.77E-04	1.51E-04	9.75E-05	3.66E-05	8.00E-06	5.22E-06					
1887	416660	4819200	4.01E-05	2.02E-05	8.42E-06	2.81E-06	3.78E-07	1.40E-07	7.28E-05	2.64E-05	1.15E-05	4.26E-06	5.84E-07	2.17E-07	2.62E-04	9.73E-05	5.27E-05	3.15E-05	6.35E-06	4.02E-06	2.48E-04	1.37E-04	5.52E-05	2.12E-05	6.14E-06	3.69E-06	2.73E-04	1.55E-04	9.88E-05	3.69E-05	7.69E-06	4.91E-06					
1888	416700	4819200	3.98E-05	2.00E-05	8.40E-06	2.79E-06	3.75E-07	1.37E-07	7.17E-05	2.59E-05	1.12E-05	4.19E-06	5.74E-07	2.15E-07	2.50E-04	1.08E-04	6.37E-05	3.17E-05	6.24E-06	4.02E-06	2.48E-04	1.37E-04	5.52E-05	2.12E-05	6.14E-06	3.69E-06	2.73E-04	1.55E-04	9.88E-05	3.69E-05	7.69E-06	4.91E-06					
1889	416740	4819200</																																			

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	North	ESL	IEDF	RESL
ID	Easting	North	ESL	IEDF	RESL
1954	416900	418920	1.65E-04	5.28E-05	3.11E-05
1955	414450	418920	1.58E-04	5.50E-05	3.25E-05
1956	414450	418920	1.58E-04	5.50E-05	3.25E-05
1957	414580	418920	1.81E-04	6.04E-05	3.54E-05
1958	414620	418920	1.87E-04	6.25E-05	3.86E-05
1959	414660	418920	1.98E-04	7.59E-05	4.11E-05
1960	414700	418920	2.09E-04	8.92E-05	4.36E-05
1961	414740	418920	2.30E-04	9.36E-05	4.83E-05
1962	414780	418920	2.41E-04	9.72E-05	5.15E-05
1963	414820	418920	2.76E-04	1.21E-04	5.87E-05
1964	414860	418920	2.92E-04	1.33E-04	6.35E-05
1965	414900	418920	3.27E-04	1.47E-04	6.91E-05
1966	414940	418920	3.49E-04	1.61E-04	7.49E-05
1967	414980	418920	4.04E-04	1.74E-04	8.05E-05
1968	415020	418920	4.21E-04	1.94E-04	9.60E-05
1969	415060	418920	4.42E-04	2.12E-04	1.04E-04
1970	415100	418920	4.11E-04	5.52E-04	2.77E-04
1971	415140	418920	7.01E-04	3.71E-04	2.25E-04
1972	415180	418920	5.85E-04	2.31E-04	1.38E-04
1973	415220	418920	4.75E-04	1.38E-04	8.15E-05
1974	415260	418920	3.24E-04	1.38E-04	6.75E-05
1975	415300	418920	2.16E-04	1.13E-04	6.37E-05
1976	415340	418920	2.16E-04	1.10E-04	6.16E-05
1977	415380	418920	2.12E-04	1.15E-04	5.40E-05
1978	415420	418920	1.97E-04	1.13E-04	5.15E-05
1979	415460	418920	1.90E-04	1.07E-04	4.03E-05
1980	415500	418920	1.87E-04	9.80E-05	3.67E-05
1981	415540	418920	1.66E-04	9.01E-05	3.38E-05
1982	415580	418920	1.56E-04	8.34E-05	3.13E-05
1983	415620	418920	1.47E-04	7.78E-05	2.91E-05
1984	415660	418920	1.39E-04	6.74E-05	2.32E-05
1985	415700	418920	1.30E-04	6.74E-05	2.32E-05
1986	415740	418920	1.22E-04	6.26E-05	2.35E-05
1987	415780	418920	1.15E-04	5.83E-05	2.18E-05
1988	415820	418920	1.08E-04	5.44E-05	2.04E-05
1989	415860	418920	1.01E-04	5.01E-05	1.88E-05
1990	415900	418920	9.81E-05	4.61E-05	1.81E-05
1991	415940	418920	8.67E-05	4.19E-05	1.57E-05
1992	415980	418920	8.04E-05	3.83E-05	1.43E-05
1993	416020	418920	7.48E-05	3.53E-05	1.33E-05
1994	416060	418920	6.93E-05	3.26E-05	1.22E-05
1995	416100	418920	6.31E-05	2.81E-05	1.09E-05
1996	416140	418920	5.71E-05	2.52E-05	1.05E-05
1997	416180	418920	5.16E-05	2.23E-05	9.54E-06
1998	416220	418920	5.46E-05	2.48E-05	1.02E-05
1999	416260	418920	5.21E-05	2.36E-05	9.96E-06
2000	416300	418920	5.01E-05	2.25E-05	9.74E-06
2001	416340	418920	4.81E-05	2.15E-05	9.52E-06
2002	416380	418920	4.68E-05	2.11E-05	9.35E-06
2003	416420	418920	4.52E-05	2.06E-05	9.20E-06
2004	416460	418920	4.45E-05	2.02E-05	9.08E-06
2005	416500	418920	4.39E-05	2.00E-05	8.96E-06
2006	416540	418920	4.32E-05	1.98E-05	8.81E-06
2007	416580	418920	4.28E-05	1.98E-05	8.81E-06
2008	416620	418920	4.24E-05	1.98E-05	8.74E-06
2009	416660	418920	4.19E-05	1.96E-05	8.66E-06
2010	416700	418920	4.14E-05	1.95E-05	8.57E-06
2011	416740	418920	4.09E-05	1.94E-05	8.49E-06
2012	416780	418920	4.04E-05	1.93E-05	8.40E-06
2013	416820	418920	4.01E-05	1.93E-05	8.36E-06
2014	416860	418920	4.02E-05	1.93E-05	8.36E-06
2015	416900	418920	4.02E-05	1.93E-05	8.36E-06
2016	414450	418920	1.58E-04	5.50E-05	3.25E-05
2017	414450	418920	1.58E-04	5.50E-05	3.25E-05
2018	414580	418920	1.81E-04	6.04E-05	3.54E-05
2019	414620	418920	1.87E-04	6.25E-05	3.86E-05
2020	414660	418920	1.98E-04	7.59E-05	4.11E-05
2021	414700	418920	2.09E-04	8.92E-05	4.36E-05
2022	414740	418920	2.30E-04	9.36E-05	4.83E-05
2023	414780	418920	2.41E-04	9.72E-05	5.15E-05
2024	414820	418920	2.76E-04	1.21E-04	5.87E-05
2025	414860	418920	2.92E-04	1.33E-04	6.35E-05
2026	414900	418920	3.27E-04	1.47E-04	6.91E-05
2027	414940	418920	3.49E-04	1.61E-04	7.49E-05
2028	414980	418920	4.04E-04	1.74E-04	8.05E-05
2029	415020	418920	4.21E-04	1.94E-04	9.60E-05
2030	415060	418920	4.42E-04	2.12E-04	1.04E-04
2031	415100	418920	4.11E-04	5.52E-04	2.77E-04
2032	415140	418920	7.01E-04	3.71E-04	2.25E-04
2033	415180	418920	5.85E-04	2.31E-04	1.38E-04
2034	415220	418920	4.75E-04	1.38E-04	8.15E-05
2035	415260	418920	3.24E-04	1.38E-04	6.75E-05
2036	415300	418920	2.16E-04	1.13E-04	6.37E-05
2037	415340	418920	2.16E-04	1.10E-04	6.16E-05
2038	415380	418920	2.12E-04	1.15E-04	5.40E-05
2039	415420	418920	1.97E-04	1.13E-04	5.15E-05
2040	415460	418920	1.90E-04	1.07E-04	4.03E-05
2041	415500	418920	1.87E-04	9.80E-05	3.67E-05
2042	415540	418920	1.66E-04	9.01E-05	3.38E-05
2043	415580	418920	1.56E-04	8.34E-05	3.13E-05
2044	415620	418920	1.47E-04	7.78E-05	2.91E-05
2045	415660	418920	1.39E-04	6.74E-05	2.32E-05
2046	415700	418920	1.30E-04	6.74E-05	2.32E-05
2047	415740	418920	1.22E-04	6.26E-05	2.35E-05
2048	415780	418920	1.15E-04	5.83E-05	2.18E-05
2049	415820	418920	1.08E-04	5.44E-05	2.04E-05
2050	415860	418920	1.01E-04	5.01E-05	1.88E-05
2051	415900	418920	9.81E-05	4.61E-05	1.81E-05
2052	415940	418920	8.67E-05	4.19E-05	1.57E-05
2053	415980	418920	8.04E-05	3.83E-05	1.43E-05
2054	416020	418920	7.48E-05	3.53E-05	1.33E-05
2055	416060	418920	6.93E-05	3.26E-05	1.22E-05
2056	416100	418920	6.31E-05	2.81E-05	1.09E-05
2057	416140	418920	5.71E-05	2.52E-05	1.05E-05
2058	416180	418920	5.16E-05	2.23E-05	9.54E-06
2059	416220	418920	5.46E-05	2.48E-05	1.02E-05
2060	416260	418920	5.21E-05	2.36E-05	9.96E-06
2061	416300	418920	5.01E-05	2.25E-05	9.74E-06
2062	416340	418920	4.81E-05	2.15E-05	9.52E-06
2063	416380	418920	4.68E-05	2.11E-05	9.35E-06
2064	416420	418920	4.52E-05	2.06E-05	9.20E-06
2065	416460	418920	4.45E-05	2.02E-05	9.08E-06
2066	416500	418920	4.39E-05	2.00E-05	8.96E-06
2067	416540	418920	4.32E-05	1.98E-05	8.81E-06
2068	416580	418920	4.28E-05	1.98E-05	8.81E-06
2069	416620	418920	4.24E-05	1.98E-05	8.74E-06
2070	416660	418920	4.19E-05	1.96E-05	8.66E-06
2071	416700	418920	4.14E-05	1.95E-05	8.57E-06
2072	416740	418920	4.09E-05	1.94E-05	8.49E-06
2073	416780	418920	4.04E-05	1.93E-05	8.40E-06
2074	416820	418920	4.01E-05	1.93E-05	8.36E-06
2075	416860	418920	4.02E-05	1.93E-05	8.36E-06
2076	416900	418920	4.02E-05	1.93E-05	8.36E-06
2077	416940	418920	4.02E-05	1.93E-05	8.36E-06
2078	416980	418920	4.02E-05	1.93E-05	8.36E-06
2079	417020	418920	4.02E-05	1.93E-05	8.36E-06
2080	417060	418920	4.02E-05	1.93E-05	8.36E-06
2081	417100	418920	4.02E-05	1.93E-05	8.36E-06
2082	417140	418920	4.02E-05	1.93E-05	8.36E-06
2083	417180	418920	4.02E-05	1.93E-05	8.36E-06
2084	417220	418920	4.02E-05	1.93E-05	8.36E-06
2085	417260	418920	4.02E-05	1.93E-05	8.36E-06
2086	417300	418920	4.02E-05	1.93E-05	8.36E-06
2087	417340	418920	4.02E-05	1.93E-05	8.36E-06
2088	417380	418920	4.02E-05	1.93E-05	8.36E-06
2089	417420	418920	4.02E-05	1.93E-05	8.36E-06
2090	417460	418920	4.02E-05	1.93E-05	8.36E-06
2091	417500	418920	4.02E-05	1.93E-05	8.36E-06
2092	417540	418920	4.02E-05	1.93E-05	8.36E-06
2093	417580	418920	4.02E-05	1.93E-05	8.36E-06
2094	417620	418920	4.02E-05	1.93E-05	8.36E-06
2095	417660	418920	4.02E-05	1.93E-05	8.36E-06
2096	417700	418920	4.02E-05	1.93E-05	8.36E-06
2097	417740	418920	4.02E-05	1.93E-05	8.36E-06
2098	417780	418920	4.02E-05	1.93E-05	8.36E-06
2099	417820	418920	4.02E-05	1.93E-05	8.36E-06
2100	417860	418920	4.02E-05	1.93E-05	8.36E-06
2101	417900	418920	4.02E-05	1.93E-05	8.36E-06
2102	417940	418920	4.02E-05	1.93E-05	8.36E-06
2103	417980	418920	4.02E-05	1.93E-05	8.36E-06
2104	418020	418920	4.02E-05	1.93E-05	8.36E-06
2105	418060	418920	4.02E-05	1.93E-05	8.36E-06
2106	418100	418920	4.02E-05	1.93E-05	8.36E-06
2107	418140	418920	4.02E-05	1.93E-05	8.36E-06
2108	418180	418920	4.02E-05	1.93E-05	8.36E-06
2109	418220	418920	4.02E-05	1.93E-05	8.36E-06
2110	418260	418920	4.02E-05	1.93E-05	8.36E-06
2111	418300	418920	4.02E-05	1.93E-05	8.36E-06
2112	418340	418920	4.02E-05	1.93E-05	8.36E-06
2113	418380	418920	4.02E-05	1.93E-05	8.36E-06
2114	418420	418920	4.02E-05	1.93E-05	8.36E-06
2115	418460	418920	4.02E-05	1.93E-05	8.36E-06
2116	418500	418920	4.02E-05	1.93E-05	8.36E-06
2117	418540	418920	4.02E-05	1.93E-05	8.36E-06
2118	418580	418920	4.02E-05	1.93E-05	8.36E-06
2119	418620	418920	4.02E-05	1.93E-05	8.36E-06
2120	4				

ENGINEERING CALCULATIONS AND ANALYSIS AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	m	EIL				ESL				IEDF				IRC				RESL												
				1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual					
2047	415740	4819320	1.21E-04	5.90E-05	2.45E-05	1.06E-05	1.13E-06	4.95E-07	1.77E-04	5.91E-05	2.44E-05	9.95E-06	1.19E-06	5.73E-07	2.52E-04	8.40E-05	3.75E-05	1.27E-05	2.30E-06	6.48E-07	2.01E-04	7.19E-05	2.69E-05	1.30E-05	1.41E-06	4.45E-07	1.96E-04	8.97E-05	4.56E-05	1.56E-05	2.14E-06	7.19E-07
2048	415820	4819320	1.16E-04	5.33E-05	2.27E-05	9.43E-06	1.03E-06	4.47E-07	1.62E-04	5.41E-05	2.29E-05	8.49E-06	1.15E-06	5.32E-07	2.47E-04	8.94E-05	4.85E-05	1.62E-05	2.15E-06	6.79E-07	1.97E-04	8.49E-05	3.45E-05	1.24E-05	1.46E-06	4.82E-07	2.03E-04	9.38E-05	5.53E-05	1.84E-05	2.49E-06	7.56E-07
2049	415820	4819320	1.10E-04	4.82E-05	2.11E-05	8.36E-06	9.47E-07	4.08E-07	1.46E-04	5.01E-05	2.15E-05	7.97E-06	1.11E-06	5.04E-07	2.24E-04	8.83E-05	5.88E-05	1.96E-05	2.20E-06	7.11E-07	2.35E-04	1.09E-04	4.22E-05	1.41E-05	1.23E-06	5.18E-07	2.14E-04	1.09E-04	6.34E-05	2.11E-05	2.72E-06	7.94E-07
2050	415880	4819320	1.04E-04	4.07E-05	1.95E-05	7.29E-06	8.67E-07	3.71E-07	1.31E-04	4.85E-05	1.99E-05	7.39E-06	1.06E-06	4.74E-07	2.97E-04	1.11E-04	4.87E-05	1.71E-05	2.08E-06	7.51E-07	2.25E-04	9.58E-05	3.66E-05	1.23E-05	1.15E-06	5.57E-07	2.14E-04	1.10E-04	6.64E-05	2.21E-05	2.73E-06	8.29E-07
2051	415900	4819320	8.69E-05	3.64E-05	1.79E-05	6.36E-06	7.55E-07	3.41E-07	1.23E-04	4.55E-05	1.93E-05	8.97E-06	1.01E-06	4.53E-07	2.19E-04	9.34E-05	3.81E-05	1.51E-05	1.80E-06	7.90E-07	2.45E-04	8.91E-05	3.48E-05	1.16E-05	1.67E-06	5.87E-07	2.31E-04	1.12E-04	6.22E-05	2.07E-05	2.54E-06	8.63E-07
2052	415940	4819320	9.05E-05	3.25E-05	1.66E-05	5.75E-06	7.31E-07	3.14E-07	1.16E-04	4.44E-05	1.88E-05	8.26E-06	9.99E-07	4.24E-07	2.17E-04	8.72E-05	3.34E-05	1.68E-05	1.79E-06	8.56E-07	2.53E-04	8.66E-05	3.65E-05	1.22E-05	2.25E-06	6.24E-07	2.31E-04	1.19E-04	5.13E-05	1.77E-05	2.29E-06	9.08E-07
2053	415980	4819320	8.45E-05	2.91E-05	1.56E-05	5.38E-06	6.72E-07	2.89E-07	1.09E-04	4.39E-05	1.83E-05	8.11E-06	9.36E-07	4.01E-07	2.47E-04	1.03E-04	3.85E-05	1.91E-05	2.16E-06	9.66E-07	2.47E-04	8.84E-05	4.67E-05	1.56E-05	2.07E-06	6.68E-07	2.28E-04	1.19E-04	4.55E-05	1.88E-05	2.17E-06	9.79E-07
2054	416020	4819320	7.89E-05	2.69E-05	1.47E-05	5.07E-06	6.21E-07	2.69E-07	1.03E-04	4.32E-05	1.82E-05	8.05E-06	9.09E-07	3.80E-07	2.03E-04	1.14E-04	4.72E-05	1.99E-05	2.61E-06	1.14E-06	2.66E-04	1.19E-04	4.67E-05	1.91E-05	1.96E-06	7.12E-07	2.37E-04	1.14E-04	4.41E-05	2.30E-05	2.37E-06	1.08E-06
2055	416060	4819320	7.39E-05	2.51E-05	1.39E-05	4.78E-06	5.78E-07	2.51E-07	9.75E-05	4.26E-05	1.81E-05	8.02E-06	8.84E-07	3.62E-07	2.57E-04	1.16E-04	5.29E-05	2.25E-05	3.37E-06	1.52E-06	2.69E-04	9.27E-05	3.57E-05	1.40E-05	1.54E-06	7.72E-07	2.52E-04	1.20E-04	4.81E-05	2.35E-05	2.88E-06	1.22E-06
2056	416100	4819320	6.92E-05	2.36E-05	1.32E-05	4.53E-06	5.41E-07	2.37E-07	9.21E-05	4.21E-05	1.81E-05	8.02E-06	8.84E-07	3.48E-07	2.73E-04	1.26E-04	5.22E-05	2.29E-05	3.39E-06	1.52E-06	2.81E-04	9.85E-05	3.80E-05	1.90E-05	1.66E-06	8.99E-07	2.49E-04	1.19E-04	4.14E-05	2.53E-05	3.56E-06	1.39E-06
2057	416140	4819320	6.52E-05	2.24E-05	1.26E-05	4.32E-06	5.09E-07	2.25E-07	8.96E-05	4.15E-05	1.79E-05	8.98E-06	8.42E-07	3.35E-07	2.72E-04	1.02E-04	4.65E-05	2.77E-05	4.44E-06	1.76E-06	3.23E-04	1.14E-04	5.08E-05	1.98E-05	2.51E-06	1.16E-06	2.67E-04	1.36E-04	6.59E-05	2.74E-05	4.23E-06	1.59E-06
2058	416180	4819320	6.15E-05	2.15E-05	1.21E-05	4.14E-06	4.81E-07	2.14E-07	8.81E-05	4.08E-05	1.78E-05	8.94E-06	8.24E-07	3.24E-07	2.32E-04	1.43E-04	5.57E-05	2.66E-05	4.52E-06	1.99E-06	3.64E-04	1.64E-04	8.00E-05	3.34E-05	4.40E-06	1.53E-06	2.57E-04	1.23E-04	5.84E-05	3.23E-05	4.73E-06	1.80E-06
2059	416220	4819320	5.84E-05	2.07E-05	1.17E-05	4.00E-06	4.57E-07	2.05E-07	8.68E-05	4.01E-05	1.75E-05	8.89E-06	8.06E-07	3.14E-07	2.11E-04	1.46E-04	5.70E-05	2.38E-05	4.47E-06	2.26E-06	3.75E-04	1.68E-04	8.96E-05	4.88E-05	1.89E-06	1.26E-06	2.64E-04	1.39E-04	6.73E-05	3.46E-05	5.02E-06	2.02E-06
2060	416260	4819320	5.58E-05	2.02E-05	1.14E-05	3.88E-06	4.36E-07	1.96E-07	8.53E-05	3.93E-05	1.75E-05	8.82E-06	7.87E-07	3.03E-07	2.28E-04	1.15E-04	6.21E-05	2.12E-05	4.93E-06	2.58E-06	3.70E-04	1.94E-04	7.94E-05	4.10E-05	1.61E-06	1.26E-06	2.62E-04	1.66E-04	7.40E-05	3.35E-05	5.06E-06	2.26E-06
2061	416300	4819320	5.36E-05	1.97E-05	1.10E-05	3.76E-06	4.19E-07	1.89E-07	8.37E-05	3.84E-05	1.72E-05	8.74E-06	7.68E-07	2.93E-07	2.56E-04	1.25E-04	6.42E-05	2.22E-05	5.19E-06	2.84E-06	4.20E-04	1.40E-04	8.19E-05	2.75E-05	6.33E-06	3.01E-06	2.59E-04	1.47E-04	7.54E-05	2.95E-05	4.87E-06	2.51E-06
2062	416340	4819320	5.17E-05	1.94E-05	1.08E-05	3.66E-06	4.04E-07	1.82E-07	8.21E-05	3.83E-05	1.69E-05	8.53E-06	7.49E-07	2.84E-07	2.54E-04	1.21E-04	6.52E-05	2.35E-05	5.47E-06	3.10E-06	4.08E-04	1.70E-04	9.14E-05	5.29E-05	1.39E-06	1.39E-06	2.58E-04	1.39E-04	7.34E-05	5.28E-06	2.77E-06	2.77E-06
2063	416380	4819320	4.97E-05	1.91E-05	1.05E-05	3.57E-06	3.90E-07	1.76E-07	8.03E-05	3.81E-05	1.66E-05	8.55E-06	7.30E-07	2.74E-07	2.45E-04	1.18E-04	6.23E-05	2.33E-05	5.65E-06	3.47E-06	4.10E-04	1.58E-04	7.78E-05	3.31E-05	1.48E-06	1.48E-06	2.57E-04	1.46E-04	7.39E-05	5.27E-05	5.81E-06	3.05E-06
2064	416420	4819320	4.80E-05	1.90E-05	1.03E-05	3.50E-06	3.79E-07	1.71E-07	7.86E-05	3.80E-05	1.63E-05	8.54E-06	7.11E-07	2.65E-07	2.51E-04	1.11E-04	6.30E-05	3.11E-05	5.87E-06	3.47E-06	3.53E-04	1.40E-04	7.49E-05	3.94E-05	1.752E-06	5.03E-06	2.55E-04	1.42E-04	6.95E-05	2.87E-05	6.17E-06	3.33E-06
2065	416460	4819320	4.65E-05	1.89E-05	1.01E-05	3.44E-06	3.69E-07	1.66E-07	7.68E-05	3.78E-05	1.60E-05	8.35E-06	6.94E-07	2.57E-07	2.31E-04	1.10E-04	6.11E-05	3.13E-05	6.02E-06	3.95E-06	3.52E-04	1.31E-04	6.92E-05	3.83E-05	1.54E-06	1.54E-06	2.48E-04	1.33E-04	7.85E-05	3.48E-05	6.28E-06	3.59E-06
2066	416500	4819320	4.53E-05	1.90E-05	9.98E-06	3.38E-06	3.60E-07	1.62E-07	7.60E-05	3.76E-05	1.57E-05	8.25E-06	6.77E-07	2.50E-07	2.04E-04	1.14E-04	5.25E-05	2.59E-05	6.07E-06	4.03E-06	2.74E-04	1.30E-04	7.13E-05	2.89E-05	8.41E-06	5.63E-06	2.46E-04	1.24E-04	7.67E-05	3.70E-05	6.17E-06	3.81E-06
2067	416540	4819320	4.43E-05	1.90E-05	9.87E-06	3.34E-06	3.52E-07	1.58E-07	7.53E-05	3.75E-05	1.55E-05	8.62E-06	6.62E-07	2.43E-07	2.86E-04	1.18E-04	5.13E-05	2.56E-05	5.99E-06	4.06E-06	2.85E-04	1.44E-04	6.81E-05	3.79E-05	7.97E-06	5.50E-06	2.38E-04	1.39E-04	6.63E-05	3.52E-05	6.04E-06	3.96E-06
2068	416580	4819320	4.35E-05	1.91E-05	9.77E-06	3.30E-06	3.46E-07	1.54E-07	7.45E-05	3.72E-05	1.52E-05	8.53E-06	6.47E-07	2.37E-07	2.30E-04	1.07E-04	6.09E-05	2.39E-05	5.89E-06	3.98E-06	2.36E-04	1.28E-04	7.33E-05	3.06E-05	7.38E-06	5.22E-06	2.30E-04	1.36E-04	6.24E-05	3.28E-05	6.07E-06	4.04E-06
2069	416620	4819320	4.29E-05	1.92E-05	9.73E-06	3.27E-06	3.40E-07	1.51E-07	7.36E-05	3.69E-05	1.49E-05	8.65E-06	6.32E-07	2.30E-07	3.30E-04	1.16E-04	6.23E-05	2.58E-05	5.68E-06	3.98E-06	2.81E-04	1.10E-04	6.23E-05	3.51E-05	6.99E-06	4.42E-06	2.35E-04	1.29E-04	5.88E-05	3.27E-05	6.01E-06	4.03E-06
2070	416660	4819320	4.22E-05	1.91E-05	9.58E-06	3.23E-06	3.34E-07	1.48E-07	7.27E-05	3.66																						

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	m	EIL				ESL				IEDF				IRC				RESL														
				1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual							
2326	414700	4819520		1.68E-04	6.35E-05	2.38E-05	7.94E-06	8.15E-07	3.71E-07	2.19E-04	7.84E-05	3.08E-05	1.04E-05	1.37E-06	4.69E-07	7.53E-05	3.20E-05	1.20E-05	4.01E-06	4.29E-07	1.84E-07	6.46E-05	3.82E-05	1.43E-05	4.77E-06	5.36E-07	1.67E-07	8.13E-05	3.46E-05	1.30E-05	4.33E-06	4.41E-07	1.94E-07	
2327	414740	4819520		1.71E-04	5.96E-05	2.23E-05	7.45E-06	9.10E-07	3.96E-07	2.32E-04	1.03E-04	3.86E-05	1.29E-05	1.69E-06	5.17E-07	7.78E-05	3.12E-05	1.22E-05	4.06E-06	4.50E-07	1.91E-07	6.80E-05	3.75E-05	1.41E-05	4.69E-06	5.34E-07	1.74E-07	8.38E-05	3.38E-05	1.28E-05	4.27E-06	4.61E-07	2.02E-07	
2328	414780	4819520		1.84E-04	6.14E-05	2.31E-05	7.70E-06	1.09E-06	4.27E-07	2.64E-04	1.19E-04	4.45E-05	1.48E-05	1.89E-06	5.88E-07	8.18E-05	3.05E-05	1.29E-05	4.31E-06	4.74E-07	2.01E-07	7.52E-05	3.72E-05	1.39E-05	4.65E-06	5.39E-07	1.83E-07	8.87E-05	3.29E-05	1.39E-05	4.62E-06	4.84E-07	2.11E-07	
2329	414820	4819520		1.92E-04	6.41E-05	2.46E-05	1.00E-05	1.21E-06	4.51E-07	2.67E-04	1.24E-04	4.66E-05	1.56E-05	2.11E-06	6.95E-07	8.65E-05	3.01E-05	1.38E-05	4.59E-06	4.92E-07	2.10E-07	8.14E-05	3.59E-05	1.35E-05	4.49E-06	5.37E-07	1.92E-07	9.29E-05	3.26E-05	1.48E-05	4.93E-06	5.01E-07	2.20E-07	
2330	414860	4819520		1.95E-04	6.51E-05	2.80E-05	1.43E-05	1.29E-06	5.02E-07	2.87E-04	1.39E-04	5.30E-05	1.73E-05	2.12E-06	7.13E-07	9.35E-05	3.20E-05	1.46E-05	4.89E-06	5.05E-07	2.20E-07	8.51E-05	3.59E-05	1.35E-05	4.49E-06	5.32E-07	2.00E-07	9.60E-05	3.28E-05	1.56E-05	5.21E-06	5.31E-07	2.30E-07	
2331	414900	4819520		1.61E-04	7.72E-05	2.89E-05	1.84E-05	1.69E-06	5.81E-07	2.88E-04	1.43E-04	5.36E-05	1.79E-05	2.01E-06	7.75E-07	1.17E-05	3.40E-05	1.56E-05	5.21E-06	5.30E-07	2.31E-07	9.19E-05	3.80E-05	1.43E-05	4.76E-06	5.33E-07	2.10E-07	9.84E-05	3.66E-05	1.64E-05	5.64E-06	5.62E-07	2.40E-07	
2332	414940	4819520		1.54E-04	9.67E-05	3.85E-05	1.76E-05	2.03E-06	6.60E-07	2.65E-04	1.08E-04	4.03E-05	1.34E-05	1.78E-06	8.38E-07	9.36E-05	3.47E-05	1.66E-05	5.53E-06	5.44E-07	2.36E-07	9.24E-05	3.88E-05	1.45E-05	4.84E-06	5.11E-07	2.13E-07	9.92E-05	3.76E-05	1.73E-05	5.76E-06	5.79E-07	2.47E-07	
2333	414980	4819520		1.69E-04	9.82E-05	3.72E-05	1.30E-05	1.56E-06	7.60E-07	2.82E-04	1.00E-04	4.08E-05	1.50E-05	2.40E-06	9.72E-07	7.07E-05	3.55E-05	1.75E-05	5.84E-06	5.60E-07	2.44E-07	9.10E-05	3.95E-05	1.48E-05	4.93E-06	4.95E-07	2.18E-07	1.03E-04	3.38E-05	1.83E-05	6.11E-06	5.96E-07	2.56E-07	
2334	415020	4819520		1.98E-04	8.45E-05	5.04E-05	1.69E-05	2.69E-06	9.42E-07	3.05E-04	1.11E-04	5.11E-05	2.67E-05	3.12E-06	1.25E-06	9.79E-05	3.92E-05	1.82E-05	6.07E-06	5.69E-07	2.52E-07	9.00E-05	3.98E-05	1.49E-05	4.98E-06	4.87E-07	2.23E-07	1.04E-04	4.10E-05	1.91E-05	6.38E-06	6.10E-07	2.65E-07	
2335	415060	4819520		2.16E-04	1.01E-04	5.18E-05	1.73E-05	2.54E-06	1.22E-06	3.22E-04	1.55E-04	7.27E-05	3.55E-05	4.45E-06	1.75E-06	1.01E-04	4.26E-05	1.88E-05	6.29E-06	5.83E-07	2.68E-07	9.53E-05	4.02E-05	1.53E-05	5.10E-06	5.25E-07	2.32E-07	1.06E-04	4.52E-05	1.98E-05	6.60E-06	6.24E-07	2.79E-07	
2336	415100	4819520		2.33E-04	1.19E-04	5.44E-05	2.51E-05	3.80E-06	1.81E-06	3.66E-04	1.73E-04	9.24E-05	3.30E-05	5.37E-06	2.54E-06	1.10E-04	5.05E-05	1.90E-05	6.32E-06	5.97E-07	2.82E-07	1.00E-04	3.97E-05	1.57E-05	5.22E-06	5.59E-07	2.43E-07	1.13E-04	5.34E-05	2.01E-05	6.69E-06	6.34E-07	2.94E-07	
2337	415140	4819520		2.83E-04	1.57E-04	6.75E-05	3.03E-05	7.00E-06	2.97E-06	3.80E-04	2.28E-04	1.16E-04	4.12E-05	8.75E-06	3.63E-06	1.11E-04	5.64E-05	2.11E-05	7.05E-06	6.74E-07	2.95E-07	1.08E-04	3.89E-05	1.55E-05	5.16E-06	5.76E-07	2.50E-07	1.16E-04	6.02E-05	2.26E-05	7.52E-06	6.52E-07	3.08E-07	
2338	415180	4819520		2.27E-04	1.50E-04	7.28E-05	3.88E-05	4.78E-06	4.60E-06	3.71E-04	1.81E-04	1.02E-04	4.63E-05	1.35E-05	6.81E-06	1.10E-04	6.02E-05	2.26E-05	7.52E-06	7.52E-07	3.08E-07	1.11E-04	3.71E-05	1.50E-05	5.00E-06	5.80E-07	2.55E-07	1.18E-04	6.54E-05	2.45E-05	8.17E-06	7.32E-07	3.22E-07	
2339	415220	4819520		3.11E-04	1.62E-04	9.23E-05	5.64E-05	1.36E-05	8.19E-06	8.29E-04	3.31E-04	2.10E-04	9.97E-05	2.80E-05	1.74E-05	1.11E-04	6.20E-05	2.32E-05	7.97E-06	8.30E-07	3.32E-07	1.07E-04	3.56E-05	1.67E-05	5.55E-06	6.95E-07	2.62E-07	1.21E-04	6.84E-05	2.57E-05	8.55E-06	8.10E-07	3.38E-07	
2340	415260	4819520		3.45E-04	1.84E-04	9.42E-05	6.01E-05	1.87E-05	1.22E-06	6.75E-04	2.81E-04	1.55E-04	6.63E-05	3.51E-06	2.36E-05	1.33E-04	6.54E-05	2.19E-05	8.43E-06	9.26E-07	3.55E-07	1.18E-04	4.01E-05	1.96E-05	6.93E-06	6.24E-07	2.81E-07	1.32E-04	6.61E-05	2.49E-05	8.79E-06	9.28E-07	3.73E-07	
2341	415300	4819520		3.79E-04	2.14E-04	1.05E-04	5.45E-05	1.63E-05	1.16E-05	4.04E-04	2.12E-04	9.96E-05	2.15E-05	1.41E-05	1.26E-04	6.16E-05	2.43E-05	8.12E-06	9.21E-07	3.72E-07	1.23E-04	4.58E-05	2.10E-05	7.01E-06	6.34E-07	2.91E-07	1.33E-04	6.71E-05	2.49E-05	8.69E-06	9.49E-07	3.92E-07		
2342	415340	4819520		2.41E-04	1.21E-04	7.38E-05	3.90E-05	1.22E-05	8.06E-06	3.45E-04	1.44E-04	7.97E-05	4.14E-05	1.37E-05	7.78E-06	1.36E-04	7.08E-05	2.74E-05	9.13E-06	8.86E-07	3.90E-07	1.32E-04	4.88E-05	2.12E-05	7.06E-06	6.45E-07	3.02E-07	1.45E-04	6.71E-05	2.74E-05	9.13E-06	9.37E-07	4.11E-07	
2343	415420	4819520		2.24E-04	1.42E-04	6.72E-05	2.80E-05	8.42E-06	5.34E-06	2.63E-04	1.22E-04	5.97E-05	3.11E-05	9.51E-06	4.67E-06	1.48E-04	7.42E-05	2.83E-05	9.45E-06	9.20E-07	4.08E-07	1.32E-04	5.67E-05	2.13E-05	7.09E-06	7.38E-07	3.12E-07	1.53E-04	6.72E-05	2.93E-05	1.00E-05	8.90E-07	4.32E-07	
2344	415460	4819520		2.02E-04	9.50E-05	4.77E-05	2.11E-05	6.16E-06	3.66E-06	2.62E-04	1.16E-04	4.80E-05	2.40E-05	6.71E-06	3.12E-06	1.46E-04	4.23E-05	2.56E-05	9.46E-06	9.08E-07	4.23E-07	1.38E-04	6.45E-05	2.42E-05	8.72E-06	8.76E-07	3.22E-07	1.56E-04	8.05E-05	3.02E-05	1.09E-05	9.08E-07	4.51E-07	
2345	415500	4819520		1.86E-04	9.78E-05	3.67E-05	1.78E-05	4.54E-06	2.62E-06	2.29E-04	1.05E-04	6.21E-05	2.09E-05	4.90E-06	2.25E-06	1.62E-04	6.25E-05	2.59E-05	1.06E-05	1.10E-06	4.44E-07	1.39E-04	6.07E-05	2.28E-05	9.53E-06	1.01E-06	3.38E-07	1.54E-04	7.90E-05	2.92E-05	1.16E-05	1.10E-06	4.72E-07	
2346	415540	4819520		3.41E-04	7.31E-05	3.25E-05	1.49E-05	3.77E-06	1.97E-06	1.88E-05	6.29E-05	3.42E-05	1.89E-05	3.72E-06	1.74E-06	1.62E-04	6.14E-05	1.05E-05	1.10E-05	1.37E-06	4.43E-07	1.60E-04	5.53E-05	2.07E-05	9.89E-06	1.09E-06	3.78E-07	1.96E-04	7.46E-05	2.78E-05	1.22E-05	1.22E-06	4.93E-07	
2347	415580	4819520		1.40E-04	7.74E-05	2.73E-05	1.18E-05	3.77E-06	1.71E-06	8.04E-05	3.99E-05	7.88E-05	3.99E-05	1.83E-06	1.37E-06	1.58E-04	5.88E-05	3.24E-05	1.05E-05	1.67E-06	6.71E-06	2.89E-05	8.83E-05	1.04E-06	3.76E-07	1.98E-04	6.96E-05	3.41E-05	1.23E-05	1.36E-06	1.33E-07			
2348	415620	4819520		1.20E-04	7.51E-05	2.82E-05	1.17E-05	2.82E-06	1.29E-06	1.74E-04	7.09E-05	3.89E-05	1.69E-05	2.34E-06	1.15E-06	1.63E-04	7.05E-05	3.70E-05	1.23E-05	1.77E-06	1.76E-06	5.50E-07	1.78E-04	8.47E-05	3.27E-05	1.10E-05	9.58E-07	4.00E-07	1.59E-04	6.69E-05	3.42E-05	1.31E-05	1.79E-06	5.33E-07
2349	415660	4819520		1.37E-04	7.32E-05	2.80E-																												

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	m	EIL	ESL												IEDF												IRC												RESL											
					1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual																		
2419	415980	4819560		9.86E-05	4.22E-05	2.06E-05	7.65E-06	9.41E-07	4.56E-07	1.35E-04	5.17E-05	2.28E-05	9.13E-06	7.97E-07	5.20E-07	1.64E-04	7.30E-05	3.55E-05	1.49E-05	2.12E-06	8.25E-07	1.96E-04	6.83E-05	2.79E-05	1.22E-05	1.07E-06	5.73E-07	1.81E-04	8.52E-05	3.41E-05	1.59E-05	1.80E-06	7.75E-07																			
2420	416020	4819560		9.32E-05	3.78E-05	1.93E-05	7.64E-06	8.77E-07	4.15E-07	1.31E-04	4.90E-05	2.06E-05	9.01E-06	9.28E-07	4.81E-07	1.88E-04	8.92E-05	4.04E-05	1.70E-05	2.51E-06	9.24E-07	2.22E-04	7.88E-05	3.09E-05	1.46E-05	1.32E-06	6.51E-07	1.86E-04	8.06E-05	4.07E-05	1.66E-05	1.80E-06	8.61E-07																			
2421	416060	4819560		9.43E-05	3.24E-05	1.92E-05	7.46E-06	8.13E-07	3.82E-07	1.25E-04	5.06E-05	2.01E-05	8.93E-06	8.95E-07	4.52E-07	1.83E-04	8.80E-05	3.82E-05	1.70E-05	2.75E-06	1.01E-06	2.52E-04	8.77E-05	3.07E-05	1.46E-05	1.58E-06	7.50E-07	1.90E-04	9.14E-05	4.69E-05	1.93E-05	2.53E-06	9.43E-07																			
2422	416100	4819560		9.26E-05	3.14E-05	1.87E-05	7.17E-06	7.52E-07	3.55E-07	1.19E-04	5.25E-05	1.98E-05	8.85E-06	8.75E-07	4.31E-07	1.74E-04	7.53E-05	3.20E-05	1.92E-05	2.97E-06	1.11E-06	2.45E-04	8.54E-05	3.08E-05	1.45E-05	1.28E-06	6.97E-07	1.95E-04	8.99E-05	4.71E-05	1.94E-05	2.88E-06	1.04E-06																			
2423	416140	4819560		8.83E-05	3.30E-05	1.79E-05	6.79E-06	6.88E-07	3.32E-07	1.12E-04	5.41E-05	2.04E-05	9.19E-06	9.18E-07	4.68E-07	1.88E-04	9.13E-05	3.83E-05	1.99E-05	3.07E-06	1.22E-06	2.90E-04	1.24E-04	8.59E-05	2.33E-05	1.05E-05	1.88E-04	9.71E-05	4.17E-05	2.20E-05	4.17E-05	2.20E-05	3.10E-06	1.14E-06																		
2424	416180	4819560		8.43E-05	3.36E-05	1.68E-05	6.34E-06	6.22E-07	3.10E-07	1.06E-04	5.53E-05	2.08E-05	9.04E-06	8.40E-07	3.95E-07	1.55E-04	1.09E-04	4.20E-05	1.92E-05	3.08E-06	1.34E-06	2.65E-04	1.12E-04	4.19E-05	2.01E-05	3.03E-06	1.19E-06	1.95E-04	8.94E-05	4.47E-05	2.36E-05	3.26E-06	1.04E-06																			
2425	416220	4819560		8.36E-05	3.34E-05	1.56E-05	5.87E-06	5.66E-07	2.90E-07	1.00E-04	5.60E-05	2.11E-05	9.73E-06	8.23E-07	3.79E-07	1.60E-04	1.05E-04	4.20E-05	1.76E-05	2.99E-06	1.46E-06	2.72E-04	1.04E-04	4.61E-05	2.27E-05	3.37E-06	1.35E-06	1.95E-04	1.08E-04	4.99E-05	2.37E-05	3.33E-06	1.34E-06																			
2426	416260	4819560		8.11E-05	3.29E-05	1.46E-05	5.47E-06	5.20E-07	2.73E-07	9.42E-05	5.65E-05	2.13E-05	9.92E-06	8.05E-07	3.64E-07	1.64E-04	8.49E-05	4.64E-05	1.60E-05	3.12E-06	1.58E-06	3.01E-04	1.53E-04	5.97E-05	2.02E-05	3.61E-06	1.56E-06	1.95E-04	1.17E-04	5.17E-05	2.22E-05	3.29E-06	1.45E-06																			
2427	416300	4819560		7.72E-05	3.16E-05	1.38E-05	5.08E-06	4.90E-07	2.58E-07	8.84E-05	5.66E-05	2.13E-05	1.01E-05	7.85E-07	3.50E-07	1.68E-04	8.04E-05	4.70E-05	1.61E-05	3.25E-06	1.72E-06	2.98E-04	1.01E-04	5.30E-05	1.80E-05	4.00E-06	1.81E-06	1.91E-04	1.03E-04	5.16E-05	2.01E-05	3.14E-06	1.56E-06																			
2428	416340	4819560		7.23E-05	3.00E-05	1.25E-05	4.73E-06	4.69E-07	2.45E-07	8.29E-05	5.66E-05	2.13E-05	1.01E-05	7.65E-07	3.37E-07	1.70E-04	8.33E-05	4.57E-05	1.58E-05	3.49E-06	1.86E-06	3.42E-04	1.14E-04	5.59E-05	2.24E-05	4.11E-06	2.05E-06	1.88E-04	9.80E-05	5.45E-05	1.99E-05	3.31E-06	1.68E-06																			
2429	416380	4819560		6.70E-05	2.79E-05	1.17E-05	4.37E-06	4.50E-07	2.33E-07	8.06E-05	5.62E-05	2.12E-05	1.01E-05	7.46E-07	3.24E-07	1.72E-04	8.99E-05	4.27E-05	1.62E-05	3.70E-06	2.00E-06	3.03E-04	1.38E-04	6.73E-05	2.28E-05	3.82E-06	2.29E-06	1.85E-04	1.00E-04	5.33E-05	1.98E-05	3.59E-06	1.80E-06																			
2430	416420	4819560		6.18E-05	2.59E-05	1.08E-05	4.13E-06	4.34E-07	2.22E-07	7.80E-05	5.57E-05	2.10E-05	1.00E-05	7.29E-07	3.12E-07	1.71E-04	7.70E-05	4.50E-05	1.92E-05	3.81E-06	2.13E-06	3.03E-04	1.18E-04	5.19E-05	2.20E-05	4.28E-06	2.55E-06	1.85E-04	1.06E-04	4.96E-05	1.92E-05	3.83E-06	1.93E-06																			
2431	416460	4819560		5.69E-05	2.38E-05	9.91E-06	4.16E-06	4.20E-07	2.13E-07	7.67E-05	5.50E-05	2.07E-05	9.93E-06	7.11E-07	3.00E-07	1.80E-04	7.48E-05	4.70E-05	2.14E-05	3.83E-06	2.86E-06	3.05E-04	1.05E-04	5.39E-05	2.35E-05	4.41E-06	2.79E-06	1.86E-04	1.02E-04	4.59E-05	1.92E-05	3.99E-06	2.05E-06																			
2432	416500	4819560		5.70E-05	2.19E-05	9.07E-06	4.16E-06	4.00E-07	2.04E-07	7.68E-05	5.41E-05	2.04E-05	9.82E-06	6.94E-07	2.89E-07	1.63E-04	7.68E-05	4.54E-05	2.23E-05	3.78E-06	2.36E-06	2.40E-04	8.75E-05	4.89E-05	2.45E-05	4.51E-06	2.97E-06	1.85E-04	9.40E-05	5.24E-05	2.20E-05	4.05E-06	2.17E-06																			
2433	416540	4819560		5.47E-05	2.09E-05	8.83E-06	4.15E-06	4.00E-07	1.96E-07	7.67E-05	5.32E-05	2.00E-05	9.70E-06	6.78E-07	2.78E-07	1.56E-04	8.40E-05	3.98E-05	2.15E-05	3.78E-06	2.44E-06	2.47E-04	8.55E-05	4.54E-05	2.45E-05	4.47E-06	3.11E-06	1.78E-04	7.89E-05	5.43E-05	2.43E-05	4.01E-06	2.28E-06																			
2434	416580	4819560		5.23E-05	2.15E-05	8.13E-06	3.93E-06	3.89E-07	1.89E-07	7.66E-05	5.22E-05	1.97E-05	9.57E-06	6.63E-07	2.69E-07	1.47E-04	8.30E-05	3.77E-05	1.94E-05	3.84E-06	2.49E-06	1.93E-04	8.95E-05	4.92E-05	1.94E-05	4.71E-06	3.15E-06	1.78E-04	9.17E-05	5.32E-05	2.48E-05	3.89E-06	2.38E-06																			
2435	416620	4819560		4.98E-05	2.21E-05	8.34E-06	4.12E-06	3.88E-07	1.83E-07	7.59E-05	5.11E-05	1.93E-05	9.40E-06	6.46E-07	2.59E-07	1.50E-04	8.21E-05	3.71E-05	1.91E-05	3.75E-06	2.50E-06	2.08E-04	1.02E-04	4.72E-05	1.95E-05	4.80E-06	3.21E-06	1.73E-04	9.37E-05	4.49E-05	2.36E-05	3.77E-06	2.44E-06																			
2436	416660	4819560		4.80E-05	2.26E-05	8.53E-06	4.25E-06	3.81E-07	1.77E-07	7.52E-05	5.00E-05	1.88E-05	9.23E-06	6.31E-07	2.50E-07	1.48E-04	8.17E-05	3.62E-05	1.67E-05	3.68E-06	2.49E-06	2.14E-04	1.02E-04	4.62E-05	1.82E-05	4.49E-06	3.15E-06	1.68E-04	9.55E-05	5.12E-05	2.10E-05	3.81E-06	2.48E-06																			
2437	416700	4819560		4.65E-05	2.32E-05	8.75E-06	4.38E-06	3.78E-07	1.72E-07	7.45E-05	4.89E-05	1.84E-05	9.09E-06	6.19E-07	2.43E-07	1.62E-04	7.97E-05	4.22E-05	1.60E-05	3.75E-06	2.46E-06	1.73E-04	8.28E-05	5.09E-05	1.97E-05	4.41E-06	3.05E-06	1.68E-04	9.27E-05	4.34E-05	1.82E-05	3.72E-06	2.50E-06																			
2438	416740	4819560		4.49E-05	2.37E-05	8.94E-06	4.49E-06	3.74E-07	1.67E-07	7.37E-05	4.77E-05	1.80E-05	8.93E-06	6.07E-07	2.36E-07	1.49E-04	7.77E-05	4.92E-05	1.85E-05	3.71E-06	2.39E-06	1.81E-04	9.41E-05	5.61E-05	1.94E-05	4.36E-06	2.92E-06	1.71E-04	9.24E-05	3.98E-05	1.75E-05	3.85E-06	2.48E-06																			
2439	416780	4819560		4.31E-05	2.40E-05	9.07E-06	4.58E-06	3.69E-07	1.62E-07	7.26E-05	4.65E-05	1.75E-05	8.73E-06	5.92E-07	2.28E-07	1.53E-04	8.27E-05	5.15E-05	1.92E-05	3.60E-06	2.31E-06	2.07E-04	7.55E-05	4.60E-05	1.77E-05	4.14E-06	2.75E-06	1.66E-04	9.11E-05	4.71E-05	1.76E-05	3.89E-06	2.44E-06																			
2440	416820																																																			

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	m	m	EIL				ESL				IEDF				IRC				RESL											
					1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual				
2512	414820	4819640	1.10E-04	6.93E-05	2.68E-05	1.09E-05	1.31E-06	4.02E-07	2.01E-04	6.71E-05	2.70E-05	1.14E-05	1.30E-06	5.13E-07	8.09E-05	3.30E-06	1.46E-05	4.87E-06	4.63E-07	2.00E-07	7.26E-05	3.25E-05	1.22E-05	4.06E-06	4.07E-07	1.81E-07	8.66E-05	3.17E-05	1.52E-05	5.08E-06	5.42E-07	2.09E-07
2513	414860	4819640	1.15E-04	8.13E-05	3.07E-05	1.04E-05	1.06E-06	4.53E-07	1.92E-04	6.39E-05	3.02E-05	1.51E-05	1.37E-06	6.55E-07	8.20E-05	3.33E-06	1.52E-05	5.07E-06	4.74E-07	2.08E-07	7.67E-05	3.22E-05	1.23E-05	4.39E-06	4.30E-07	1.87E-07	8.62E-05	3.47E-05	1.59E-05	5.31E-06	5.94E-07	2.17E-07
2514	414900	4819640	1.15E-04	6.25E-05	2.34E-05	9.50E-06	1.26E-06	5.12E-07	1.99E-04	8.43E-05	3.10E-05	1.78E-05	1.71E-06	6.49E-07	8.36E-05	3.35E-06	1.58E-06	4.81E-07	7.87E-07	2.08E-07	7.45E-05	3.25E-05	1.25E-05	4.50E-06	4.30E-07	1.82E-07	8.23E-05	3.41E-05	1.61E-05	5.34E-06	5.92E-07	2.12E-07
2515	414940	4819640	1.55E-04	5.92E-05	3.67E-05	1.23E-05	1.93E-06	6.07E-07	2.14E-04	9.83E-05	4.14E-05	1.85E-05	2.14E-06	7.78E-07	8.80E-05	4.08E-06	1.55E-05	5.10E-06	4.82E-07	2.25E-07	8.35E-05	2.94E-05	1.25E-05	4.17E-06	4.63E-07	1.98E-07	9.29E-05	4.13E-05	1.94E-05	5.48E-06	5.51E-07	2.35E-07
2516	414980	4819640	1.61E-04	7.54E-05	4.20E-05	1.40E-05	1.78E-06	7.13E-07	2.33E-04	5.96E-05	2.88E-05	1.80E-05	2.02E-06	9.28E-07	9.04E-05	4.57E-05	1.71E-05	5.72E-06	5.27E-07	2.35E-07	9.75E-05	2.92E-05	1.25E-05	4.18E-06	4.73E-07	2.04E-07	9.60E-05	4.48E-05	1.82E-05	6.07E-06	5.13E-07	2.46E-07
2517	415020	4819640	1.94E-04	7.65E-05	3.39E-05	1.44E-05	1.84E-06	8.54E-07	2.75E-04	1.06E-04	5.93E-05	1.99E-05	3.01E-06	1.11E-06	9.84E-05	4.97E-05	1.86E-05	6.21E-06	5.90E-07	2.46E-07	8.78E-05	2.93E-05	1.35E-05	4.51E-06	4.81E-07	2.11E-07	9.81E-05	5.33E-05	2.00E-05	6.66E-06	5.74E-07	2.57E-07
2518	415060	4819640	1.94E-04	9.98E-05	3.84E-05	1.92E-05	2.27E-06	1.16E-06	2.63E-04	1.32E-04	6.66E-05	2.42E-05	3.31E-06	1.32E-06	9.23E-05	5.22E-05	1.96E-05	6.53E-06	6.53E-07	2.58E-07	8.78E-05	3.02E-05	1.49E-05	4.97E-06	5.01E-07	2.19E-07	1.01E-04	5.67E-05	2.13E-05	7.09E-06	6.38E-07	2.69E-07
2519	415100	4819640	2.44E-04	1.38E-04	5.36E-05	2.31E-05	4.17E-06	1.69E-06	2.53E-04	1.32E-04	4.96E-05	2.10E-05	3.47E-06	1.70E-06	9.89E-05	5.24E-05	2.00E-06	6.87E-06	7.13E-07	2.62E-07	8.32E-05	3.14E-05	1.25E-05	4.45E-06	4.58E-07	1.91E-07	1.04E-04	5.88E-05	2.16E-05	7.80E-06	7.04E-07	2.54E-07
2520	415140	4819640	2.43E-04	1.00E-04	4.59E-05	2.22E-05	4.74E-06	2.16E-06	2.80E-04	1.26E-04	2.76E-05	5.80E-06	2.41E-06	1.12E-04	5.41E-05	2.03E-05	7.36E-06	7.76E-07	2.97E-07	1.02E-04	4.16E-05	1.80E-05	5.58E-07	2.48E-07	1.05E-07	7.45E-07	3.67E-07	1.50E-07	5.24E-07	1.83E-07	3.04E-07	
2521	415180	4819640	1.60E-04	1.12E-04	4.99E-05	2.33E-05	5.64E-06	2.85E-06	2.84E-04	1.34E-04	6.52E-05	3.17E-05	7.41E-06	3.47E-06	1.15E-05	4.99E-05	1.99E-05	7.33E-06	8.00E-07	3.12E-07	1.07E-04	4.12E-05	1.89E-05	6.29E-06	5.75E-07	2.59E-07	1.15E-04	7.20E-05	2.14E-05	7.62E-06	7.98E-07	3.04E-07
2522	415220	4819640	2.64E-04	1.49E-04	8.16E-05	3.34E-05	7.81E-06	4.33E-06	4.39E-04	1.85E-04	9.30E-05	4.36E-05	1.03E-05	5.84E-06	1.07E-04	5.48E-05	2.15E-05	7.17E-06	7.85E-07	3.18E-07	1.10E-04	4.27E-05	1.84E-05	6.14E-06	5.65E-07	2.61E-07	1.19E-04	5.51E-05	2.14E-05	7.40E-06	8.02E-07	3.29E-07
2523	415260	4819640	2.53E-04	1.07E-04	6.30E-05	3.46E-05	9.24E-06	6.03E-06	4.98E-04	1.85E-04	1.05E-04	5.60E-05	1.49E-05	9.74E-06	1.10E-04	6.02E-05	2.32E-05	7.74E-06	7.54E-07	3.29E-07	1.12E-04	4.80E-05	1.80E-05	6.00E-06	6.09E-07	2.68E-07	1.27E-04	6.19E-05	2.33E-05	7.78E-06	8.88E-07	3.43E-07
2524	415300	4819640	2.82E-04	1.38E-04	6.64E-05	3.98E-05	1.13E-05	7.45E-06	4.58E-04	1.87E-04	9.90E-05	5.98E-05	1.74E-05	1.19E-05	1.19E-04	6.22E-05	2.39E-05	7.99E-07	7.01E-07	3.41E-07	1.14E-04	5.44E-05	2.04E-05	6.80E-06	6.95E-07	2.74E-07	1.34E-04	6.70E-05	2.51E-05	8.33E-06	7.50E-07	3.57E-07
2525	415340	4819640	3.14E-04	1.59E-04	7.38E-05	3.85E-05	1.12E-05	8.05E-06	3.59E-04	1.77E-04	9.94E-05	4.91E-05	1.71E-05	1.20E-05	1.17E-04	6.31E-05	2.34E-05	8.24E-06	7.35E-07	3.45E-07	1.17E-04	5.45E-05	2.15E-05	7.15E-06	7.28E-07	2.85E-07	1.29E-04	6.48E-05	2.39E-05	8.44E-06	7.48E-07	3.61E-07
2526	415380	4819640	2.61E-04	1.31E-04	8.56E-05	3.60E-05	1.15E-05	7.85E-06	3.74E-04	1.36E-04	8.01E-05	4.55E-05	1.50E-05	1.05E-05	1.28E-04	5.65E-05	2.13E-05	8.92E-06	8.76E-07	3.69E-07	1.27E-04	5.38E-05	2.02E-05	6.24E-06	8.73E-07	2.97E-07	1.37E-04	6.88E-05	2.57E-05	8.68E-06	8.50E-07	3.62E-07
2527	415420	4819640	2.89E-04	1.41E-04	9.38E-05	9.91E-06	6.90E-06	2.48E-04	1.24E-04	6.17E-05	3.58E-05	1.20E-05	7.94E-06	1.29E-04	5.48E-05	2.33E-05	9.30E-06	1.04E-06	3.62E-07	1.36E-04	4.84E-05	1.82E-05	6.22E-06	9.13E-07	3.13E-07	1.32E-04	6.39E-04	4.00E-05	1.02E-05	1.01E-06	4.01E-07	
2528	415460	4819640	2.03E-04	9.63E-05	5.03E-05	3.00E-05	8.20E-06	5.51E-06	2.65E-04	1.42E-04	6.15E-05	8.87E-06	5.66E-06	1.37E-04	5.28E-05	2.68E-05	9.28E-06	1.26E-06	3.92E-07	1.29E-04	5.79E-05	3.00E-06	7.69E-06	6.78E-07	3.28E-07	1.31E-04	6.04E-05	2.53E-05	1.05E-05	1.19E-06	4.16E-07	
2529	415500	4819640	1.89E-04	8.65E-05	4.51E-05	2.25E-05	6.60E-06	4.20E-06	2.41E-04	1.02E-04	4.67E-05	2.35E-05	6.89E-06	4.18E-06	1.39E-04	5.14E-05	2.95E-05	9.84E-06	1.43E-06	4.10E-07	1.48E-04	7.16E-05	3.27E-05	9.24E-06	8.16E-07	3.45E-07	1.38E-04	5.58E-05	2.96E-05	1.04E-05	1.38E-06	4.31E-07
2530	415540	4819640	1.72E-04	1.02E-04	4.88E-05	1.89E-05	5.19E-06	3.19E-06	2.36E-04	1.03E-04	4.28E-05	1.93E-05	5.17E-06	3.08E-06	1.33E-04	6.05E-05	3.34E-05	1.11E-05	1.52E-06	4.23E-07	1.61E-06	2.88E-05	9.61E-06	7.52E-07	3.67E-07	1.38E-04	5.94E-05	3.40E-05	1.15E-05	1.54E-06	4.50E-07	
2531	415580	4819640	1.52E-04	7.93E-05	3.37E-05	1.44E-05	4.13E-06	2.46E-06	1.92E-04	9.20E-05	3.66E-05	1.69E-05	4.22E-06	2.36E-06	1.44E-04	6.48E-05	3.71E-05	1.24E-05	1.56E-06	4.50E-07	1.60E-06	5.50E-05	2.07E-06	1.99E-06	9.83E-07	4.12E-07	1.50E-04	6.82E-05	2.47E-05	8.71E-06	7.97E-07	3.07E-07
2532	415620	4819640	1.46E-04	6.63E-05	3.13E-05	1.26E-05	3.31E-06	1.94E-06	1.67E-04	7.57E-05	3.14E-05	1.49E-05	3.68E-06	1.87E-06	1.37E-04	6.65E-05	3.88E-05	1.29E-05	1.55E-06	4.47E-07	1.64E-04	6.32E-05	2.35E-05	1.03E-05	8.87E-06	3.87E-07	1.44E-04	7.04E-05	4.13E-05	1.39E-05	1.73E-06	4.72E-07
2533	415660	4819640	1.39E-04	7.41E-05	2.78E-05	1.16E-05	2.63E-06	1.56E-06	1.63E-04	7.26E-05	3.34E-05	1.20E-05	3.14E-06	1.51E-06	1.48E-04	8.89E-05	7.05E-05	1.23E-05	1.47E-06	4.59E-07	1.78E-04	6.19E-05	2.36E-05	1.09E-05	1.24E-06	3.99E-07	1.46E-04	7.03E-05	4.24E-05	1.41E-05	1.71E-06	4.48E-07
2534	415700	4819640	1.26E-04	6.00E-05	2.25E-05	1.12E-05	2.18E-06	1.27E-06	1.74E-04	7.75E-05	3.11E-05	1.11E-05	1.29E-06	7.10E-06	1.47E-05	3.26E-05	7.70E-05	2.17E-05	7.74E-06	4.70E-07	1.74E-04	5.79E-05	2.17E-05	8.30E-06	1.49E-06	4.15E-07	1.51E-04	7.24E-05	4.10E-05	1.37E-05	1.61E-06	4.94E-07
2535	415740	4819640	1.06E-04	4.89E-05	2.25E-05	9.66E-06	1.99E-06	1.07E-06	1.63E-04	7.49E-05	2.81E-05	1.18E-05																				

ID	Easting	North	m	EIL				ESL				IEDF				IESL																
				1hr	3hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual												
2605	416100	419680	7.82E-05	3.38E-05	1.51E-05	6.57E-06	8.62E-07	4.27E-07	1.09E-04	4.44E-05	2.44E-05	9.29E-06	1.04E-06	5.06E-07	1.53E-04	6.72E-05	3.06E-05	1.71E-05	2.55E-06	9.57E-07	2.45E-04	1.04E-04	4.92E-05	2.04E-05	2.36E-06	8.42E-07	1.67E-04	8.16E-05	3.90E-05	1.76E-05	2.51E-06	8.99E-07
2606	416180	419680	8.43E-05	2.95E-05	1.33E-05	6.14E-06	7.61E-07	3.95E-07	1.19E-04	3.97E-05	2.42E-05	9.29E-06	9.90E-07	4.80E-07	1.44E-04	8.47E-05	3.47E-05	1.73E-05	2.61E-06	1.02E-06	2.37E-04	9.72E-05	4.04E-05	1.68E-05	2.52E-06	9.45E-07	1.71E-04	7.65E-05	3.91E-05	1.94E-05	2.67E-06	9.71E-07
2607	416260	419680	7.01E-05	2.40E-05	1.10E-05	5.25E-06	6.42E-07	3.28E-07	1.02E-04	3.33E-05	1.45E-05	7.07E-06	6.58E-07	3.29E-07	1.17E-04	6.72E-05	3.05E-05	1.69E-05	2.39E-06	9.57E-07	2.25E-04	9.72E-05	4.13E-05	1.74E-05	2.38E-06	1.02E-06	1.77E-04	8.16E-05	4.00E-05	2.02E-06	8.22E-07	
2608	416220	419680	6.08E-05	3.00E-05	1.40E-05	4.97E-06	6.40E-07	3.43E-07	1.08E-04	4.35E-05	2.30E-05	8.51E-06	8.55E-07	4.27E-07	1.48E-04	9.13E-05	3.69E-05	1.51E-05	2.51E-06	1.21E-06	2.25E-04	9.43E-05	4.13E-05	1.89E-05	2.93E-06	1.16E-06	1.70E-04	9.62E-05	4.34E-05	1.99E-05	2.79E-06	1.12E-06
2609	416260	419680	7.69E-05	3.00E-05	1.43E-05	4.77E-06	6.37E-07	3.23E-07	1.01E-04	4.48E-05	2.26E-05	8.28E-06	8.30E-07	4.05E-07	1.45E-04	9.40E-05	4.07E-05	1.41E-05	2.58E-06	1.30E-06	2.66E-04	1.31E-04	5.08E-05	1.72E-05	3.02E-06	1.31E-06	1.72E-04	1.01E-04	4.41E-05	1.85E-05	2.74E-06	1.20E-06
2610	416300	419680	6.99E-05	2.89E-05	1.39E-05	4.81E-06	6.25E-07	3.04E-07	1.00E-04	4.52E-05	2.20E-05	8.01E-06	8.10E-07	3.83E-07	1.51E-04	8.78E-05	4.13E-05	1.41E-05	2.68E-06	1.39E-06	2.51E-04	8.85E-05	4.36E-05	1.57E-05	3.24E-06	1.48E-06	1.68E-04	8.94E-05	4.40E-05	1.70E-05	2.61E-06	1.28E-06
2611	416340	419680	6.99E-05	2.89E-05	1.39E-05	4.81E-06	6.25E-07	3.04E-07	1.00E-04	4.52E-05	2.20E-05	8.01E-06	8.10E-07	3.83E-07	1.51E-04	8.78E-05	4.13E-05	1.41E-05	2.68E-06	1.39E-06	2.51E-04	8.85E-05	4.36E-05	1.57E-05	3.24E-06	1.48E-06	1.68E-04	8.94E-05	4.40E-05	1.70E-05	2.61E-06	1.28E-06
2612	416380	419680	6.99E-05	2.89E-05	1.39E-05	4.81E-06	6.25E-07	3.04E-07	1.00E-04	4.52E-05	2.20E-05	8.01E-06	8.10E-07	3.83E-07	1.51E-04	8.78E-05	4.13E-05	1.41E-05	2.68E-06	1.39E-06	2.51E-04	8.85E-05	4.36E-05	1.57E-05	3.24E-06	1.48E-06	1.68E-04	8.94E-05	4.40E-05	1.70E-05	2.61E-06	1.28E-06
2613	416420	419680	6.99E-05	2.89E-05	1.39E-05	4.81E-06	6.25E-07	3.04E-07	1.00E-04	4.52E-05	2.20E-05	8.01E-06	8.10E-07	3.83E-07	1.51E-04	8.78E-05	4.13E-05	1.41E-05	2.68E-06	1.39E-06	2.51E-04	8.85E-05	4.36E-05	1.57E-05	3.24E-06	1.48E-06	1.68E-04	8.94E-05	4.40E-05	1.70E-05	2.61E-06	1.28E-06
2614	416460	419680	6.99E-05	2.89E-05	1.39E-05	4.81E-06	6.25E-07	3.04E-07	1.00E-04	4.52E-05	2.20E-05	8.01E-06	8.10E-07	3.83E-07	1.51E-04	8.78E-05	4.13E-05	1.41E-05	2.68E-06	1.39E-06	2.51E-04	8.85E-05	4.36E-05	1.57E-05	3.24E-06	1.48E-06	1.68E-04	8.94E-05	4.40E-05	1.70E-05	2.61E-06	1.28E-06
2615	416500	419680	5.83E-05	2.21E-05	1.24E-05	4.65E-06	5.46E-07	2.35E-07	8.95E-05	3.74E-05	1.62E-05	6.49E-06	7.02E-07	3.08E-07	1.40E-04	6.57E-05	4.11E-05	1.88E-05	2.61E-06	1.88E-06	2.36E-04	8.59E-05	4.40E-05	2.00E-05	3.63E-06	2.27E-06	1.61E-06	8.06E-05	4.15E-05	1.68E-05	3.36E-06	1.73E-06
2616	416540	419680	5.65E-05	2.20E-05	1.21E-05	4.49E-06	4.99E-07	2.24E-07	8.65E-05	3.60E-05	1.62E-05	6.71E-06	6.88E-07	2.97E-07	1.40E-04	6.70E-05	3.91E-05	1.92E-05	3.14E-06	1.89E-06	2.06E-04	7.49E-05	4.16E-05	2.00E-05	3.64E-06	2.39E-06	1.58E-06	7.91E-05	4.55E-05	1.93E-05	3.38E-06	1.82E-06
2617	416580	419680	5.52E-05	2.26E-05	1.17E-05	4.33E-06	4.44E-07	2.15E-07	8.44E-05	3.47E-05	1.53E-05	6.91E-06	6.73E-07	2.86E-07	1.35E-04	7.32E-05	4.14E-05	1.84E-05	3.13E-06	2.01E-06	2.08E-04	7.29E-05	3.81E-05	2.07E-05	3.89E-06	2.48E-06	1.54E-04	7.59E-05	4.61E-05	2.08E-05	3.32E-06	1.89E-06
2618	416620	419680	5.19E-05	2.25E-05	1.10E-05	4.18E-06	4.28E-07	2.02E-07	8.15E-05	3.30E-05	1.45E-05	6.70E-06	6.54E-07	2.76E-07	1.30E-04	7.05E-05	3.95E-05	1.86E-05	3.19E-06	2.04E-06	2.08E-04	7.07E-05	4.13E-05	1.74E-05	3.98E-06	2.48E-06	1.54E-04	7.42E-05	4.50E-05	2.02E-05	3.22E-06	1.86E-06
2619	416660	419680	5.83E-05	2.20E-05	1.10E-05	4.04E-06	4.04E-07	1.97E-07	7.91E-05	3.20E-05	1.37E-05	6.21E-06	6.44E-07	2.66E-07	1.29E-04	7.20E-05	3.33E-05	1.45E-05	3.13E-06	2.08E-06	1.77E-04	8.17E-05	3.88E-05	1.63E-05	3.90E-06	2.59E-06	1.51E-04	7.14E-05	3.81E-05	2.03E-05	3.12E-06	2.00E-06
2620	416700	419680	5.59E-05	2.29E-05	1.07E-05	3.92E-06	3.86E-07	1.90E-07	7.60E-05	3.07E-05	1.30E-05	6.38E-06	6.33E-07	2.58E-07	1.46E-04	7.10E-05	3.09E-05	1.43E-05	3.06E-06	2.06E-06	1.97E-04	9.07E-05	3.83E-05	1.62E-05	3.72E-06	2.54E-06	1.47E-04	8.18E-05	3.88E-05	1.82E-05	3.16E-06	2.04E-06
2621	416740	419680	5.50E-05	2.26E-05	1.04E-05	3.79E-06	3.97E-07	1.84E-07	7.27E-05	3.13E-05	1.23E-05	7.49E-06	6.19E-07	2.49E-07	1.46E-04	7.19E-05	3.40E-05	1.37E-05	3.13E-06	2.04E-06	1.61E-04	7.95E-05	4.18E-05	1.49E-05	3.64E-06	2.49E-06	1.48E-04	8.06E-05	3.80E-05	1.57E-05	3.10E-06	2.05E-06
2622	416780	419680	5.35E-05	2.22E-05	1.00E-05	3.65E-06	3.76E-07	1.77E-07	6.98E-05	3.17E-05	1.19E-05	7.54E-06	6.02E-07	2.40E-07	1.28E-04	6.78E-05	3.95E-05	1.48E-05	3.12E-06	1.99E-06	1.50E-04	7.77E-05	4.09E-05	1.78E-05	3.54E-06	2.41E-06	1.49E-04	7.93E-05	3.56E-05	1.49E-05	3.17E-06	2.04E-06
2623	416820	419680	5.18E-05	2.16E-05	9.64E-06	3.50E-06	3.68E-07	1.70E-07	6.92E-05	3.05E-05	1.21E-05	7.06E-06	5.87E-07	2.31E-07	1.31E-04	6.70E-05	3.99E-05	1.46E-05	3.06E-06	1.94E-06	1.57E-04	8.01E-05	4.06E-05	1.84E-05	3.50E-06	2.31E-06	1.50E-04	8.09E-05	3.66E-05	1.41E-05	3.24E-06	2.06E-06
2624	416860	419680	5.18E-05	2.16E-05	9.64E-06	3.50E-06	3.68E-07	1.70E-07	6.92E-05	3.05E-05	1.21E-05	7.06E-06	5.87E-07	2.31E-07	1.31E-04	6.70E-05	3.99E-05	1.46E-05	3.06E-06	1.94E-06	1.57E-04	8.01E-05	4.06E-05	1.84E-05	3.50E-06	2.31E-06	1.50E-04	8.09E-05	3.66E-05	1.41E-05	3.24E-06	2.06E-06
2625	416900	419680	1.35E-04	4.49E-05	1.68E-05	5.61E-06	5.53E-07	2.24E-07	1.09E-04	5.54E-05	2.60E-05	6.92E-06	7.15E-07	2.89E-07	6.42E-05	2.25E-05	9.89E-06	3.33E-06	3.53E-07	1.48E-07	6.06E-05	2.67E-05	1.00E-06	3.34E-06	3.68E-07	1.38E-07	6.83E-05	2.39E-05	1.04E-06	3.48E-06	3.58E-07	1.53E-07
2626	414500	419170	1.36E-04	4.52E-05	1.70E-05	5.65E-06	5.86E-07	2.30E-07	1.18E-04	4.32E-05	1.62E-05	5.69E-06	7.32E-07	3.01E-07	6.58E-05	2.24E-05	1.03E-05	3.40E-06	3.58E-07	1.51E-07	6.24E-05	2.74E-05	1.00E-06	3.42E-06	3.59E-07	1.41E-07	7.01E-05	2.40E-05	1.09E-06	3.62E-06	3.64E-07	1.57E-07
2627	414540	419170	1.28E-04	4.27E-05	1.61E-05	5.48E-06	5.62E-07	2.29E-07	1.35E-04	4.49E-05	1.70E-05	5.98E-06	7.48E-07	3.10E-07	6.67E-05	2.32E-05	1.06E-05	3.55E-06	3.62E-07	1.55E-07	6.37E-05	2.79E-05	1.05E-06	3.49E-06	3.50E-07	1.44E-07	7.13E-05	2.48E-05	1.13E-06	3.75E-06	3.79E-07	1.61E-07
2628	414580	419170	1.26E-04	4.19E-05	1.60E-05	5.37E-06	5.67E-07	2.34E-07	1.44E-04	4.80E-05	1.70E-05	6.84E-06	7.57E-07	3.23E-07	6.69E-05	2.39E-05	1.09E-05	3.65E-06	3.71E-07	1.59E-07	6.42E-05	2.82E-05	1.06E-06	3.53E-06	3.42E-07	1.47E-07	7.18E-05	2.56E-05	1.16E-06	3.87E-06	3.94E-07	1.68E-07
2629	414620	419170	1.26E-04	4.19E-05	1.60E-05	5.37E-06	5.67E-07	2.34E-07	1.44E-04	4.80E-05	1.70E-05	6.84E-06	7.57E-07	3.23E-07	6.69E-05	2.39E-05	1.09E-05	3.65E-06	3.71E-07	1.59E-07	6.42E-05	2.82E-05	1.06E-06	3.53E-06	3.42E-07	1.47E-07	7.18E-05	2.56E-05	1.16E-06	3.87E-06	3.94E-07	1.68E-07
2630	414660	419170	1.26E-04	4.19E-05	1.60E-05	5.37E-06	5.67E-07	2.34E-07	1.44E-04	4.80E-05	1.70E-05	6.84E-06	7.57E-07	3.23E-07	6.69E-05	2.39E-05	1.09E-05	3.65E-06	3.71E-07	1.59E-07	6.42E-05	2.82E-05	1.06E-06	3.53E-06	3.42E-07	1.47E-07	7.18E-05	2.56E-05	1.16E-06	3.87E-06	3.94E-07	1.68E-07
2631	414700	419170	8.16E-05	4.56E-05	1.71E-05	8.97E-06	7.74E-07	2.58E-07	1.60E-04	5.58E-05	2.20E-05	7.54E-06	8.94E-07	3.68E-07	7.09E-05	2.55E-05	1.23E-05	4.09E-06	4.01E-07	1.70E-07	6.49E-05	2.88E-05	1.06E-06	3.60E-06	3.51E-07	1.56E-07	7.53E-05	2.73E-05	1.28E-06	4.29E-06	4.24E-07	1.77E-07
2632	414740	419170	9.51E-05	4.55E-05	1.71E-05	8.97E-06	7.74E-07	2.58E-07	1.75E-04	5.83E-05	2.20E-05	7.96E-06	9.99E-07	4.01E-07	7.55E-05	2.74E-05	1.33E-05	4.43E-06	4.23E-07	1.80E-07	6.85E-05	2.96E-05	1.11E-06	3.70E-06	3.80E-07	1.65E-07	7.96E-05	2.86E-05	1.37E-06	4.58E-06	4.45E-07	1.87E-07
2633	414780	419170	9.81E-05	5.96E-05	2.33E-05	8.81E-06	1.08E-06	3.27E-07	1.60E-04	6.35E-05	2.38E-05	1.10E-06	1.00E-06	4.23E-07	7.59E-05	3.00E-05	1.37E-05	4.58E-06	4.30E-07	1.86E-07	7.04E-05	2.88E-05										

AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL	1hr	3hr	8hr	24hr	Month	Annual	ESL	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	IEDF	1hr	3hr	8hr	24hr	Month	Annual	RESL	1hr	3hr	8hr	24hr	Month	Annual
2698	414940	4819760	1.30E-04	5.56E-05	2.38E-05	8.75E-06	1.15E-06	5.38E-07	2.07E-04	7.39E-05	4.28E-05	1.43E-05	4.36E-05	1.59E-05	2.14E-06	7.41E-07	8.65E-05	4.55E-05	1.71E-05	5.92E-06	6.14E-07	2.32E-07	2.22E-07	7.99E-05	2.75E-05	1.39E-05	4.64E-06	4.46E-07	1.99E-07	8.85E-05	5.00E-05	1.88E-05	6.25E-06	6.07E-07	2.40E-07		
2699	414980	4819760	1.45E-04	5.39E-05	2.63E-05	1.19E-05	1.31E-06	6.34E-07	1.78E-04	8.74E-05	4.36E-05	1.59E-05	4.36E-05	1.59E-05	2.14E-06	7.41E-07	8.65E-05	4.55E-05	1.71E-05	5.92E-06	6.14E-07	2.32E-07	2.22E-07	7.99E-05	2.75E-05	1.39E-05	4.64E-06	4.46E-07	1.99E-07	8.85E-05	5.00E-05	1.88E-05	6.25E-06	6.07E-07	2.40E-07		
2700	415020	4819760	1.53E-04	7.74E-05	2.93E-05	1.41E-05	1.57E-06	8.04E-07	2.18E-04	9.45E-05	3.66E-05	1.54E-05	1.69E-05	1.69E-05	8.21E-07	9.13E-05	4.38E-05	1.64E-05	6.09E-06	6.46E-07	2.32E-07	2.47E-07	8.48E-05	3.39E-05	1.52E-05	5.08E-06	4.65E-07	2.07E-07	9.37E-05	4.91E-05	1.84E-05	6.27E-06	6.44E-07	2.52E-07			
2701	415060	4819760	1.71E-04	8.65E-05	3.52E-05	1.55E-05	2.61E-06	1.05E-06	1.94E-04	8.48E-05	3.18E-05	1.53E-05	1.84E-05	1.84E-05	9.92E-07	9.31E-05	4.18E-05	1.66E-05	6.60E-06	6.62E-07	2.54E-07	2.74E-07	8.97E-05	3.58E-05	1.53E-05	5.11E-06	4.70E-07	2.15E-07	9.68E-05	4.63E-05	1.74E-05	6.39E-06	6.68E-07	2.63E-07			
2702	415100	4819760	1.82E-04	9.18E-05	3.72E-05	1.42E-05	3.19E-06	1.33E-06	2.27E-04	8.09E-05	4.28E-05	1.83E-05	2.92E-06	1.30E-06	1.30E-06	1.30E-06	4.71E-05	1.84E-05	6.13E-06	6.11E-07	2.66E-07	2.96E-07	9.38E-05	4.01E-05	1.51E-05	5.02E-06	4.94E-07	2.24E-07	1.03E-04	4.74E-05	1.83E-05	6.25E-06	6.77E-07	2.74E-07			
2703	415140	4819760	1.73E-04	8.08E-05	3.24E-05	1.50E-05	2.34E-06	1.58E-06	1.27E-04	7.92E-05	4.52E-05	1.97E-05	1.47E-05	1.47E-05	1.70E-06	9.35E-05	5.16E-05	1.98E-05	6.62E-06	6.42E-07	2.78E-07	2.78E-07	9.33E-05	4.59E-05	1.72E-05	5.73E-06	5.61E-07	2.34E-07	1.11E-04	5.35E-05	2.00E-05	6.66E-06	6.68E-07	2.87E-07			
2704	415180	4819760	1.15E-04	8.01E-05	3.45E-05	1.52E-05	4.02E-06	1.95E-06	2.03E-04	1.06E-04	6.72E-05	2.06E-05	4.70E-06	2.25E-06	9.94E-05	5.41E-05	2.06E-05	6.88E-06	6.04E-07	2.89E-07	2.89E-07	9.80E-05	4.94E-05	1.85E-05	6.18E-06	6.32E-07	2.43E-07	1.17E-04	5.74E-05	2.17E-05	7.23E-06	6.41E-07	2.99E-07				
2705	415220	4819760	1.99E-04	9.03E-05	3.52E-05	2.19E-05	5.02E-06	2.64E-06	2.76E-04	1.16E-04	6.18E-05	2.70E-05	6.06E-06	3.22E-06	9.92E-05	5.42E-05	2.05E-05	7.11E-06	6.10E-07	2.98E-07	2.98E-07	9.51E-05	4.89E-05	1.83E-05	6.72E-06	6.98E-07	2.52E-07	1.13E-04	5.21E-05	1.97E-05	8.98E-06	9.29E-07	3.45E-07				
2706	415260	4819760	2.04E-04	1.03E-04	5.14E-05	2.48E-05	5.71E-06	3.45E-06	4.10E-04	1.62E-04	6.12E-05	3.83E-05	9.25E-06	4.91E-06	1.10E-04	5.15E-05	1.94E-05	7.59E-06	7.08E-07	3.10E-07	1.11E-04	4.74E-05	1.78E-05	7.06E-06	7.50E-07	2.63E-07	1.21E-04	6.05E-05	2.27E-05	8.14E-06	6.75E-07	3.23E-07					
2707	415300	4819760	2.04E-04	8.03E-05	4.35E-05	2.48E-05	4.24E-06	3.27E-04	1.31E-04	7.61E-05	4.12E-05	9.53E-06	6.40E-06	1.11E-04	4.93E-05	1.79E-05	8.02E-06	8.02E-07	3.21E-07	1.14E-04	4.28E-05	1.63E-05	6.94E-06	7.72E-07	2.75E-07	1.19E-04	5.77E-05	2.17E-05	8.64E-06	7.94E-07	3.34E-07						
2708	415340	4819760	2.29E-04	9.92E-05	4.62E-05	2.80E-05	7.57E-06	4.90E-06	3.42E-04	1.34E-04	7.10E-05	3.97E-05	1.05E-05	7.11E-06	1.09E-04	4.79E-05	2.09E-05	8.19E-06	9.69E-07	3.31E-07	1.11E-04	5.05E-05	1.99E-05	6.84E-06	7.51E-07	2.88E-07	1.13E-04	5.21E-05	1.97E-05	8.98E-06	9.29E-07	3.45E-07					
2709	415380	4819760	2.19E-04	1.05E-04	5.21E-05	2.54E-05	8.03E-06	5.25E-06	3.03E-04	1.44E-04	7.33E-05	3.38E-05	1.09E-05	7.40E-06	1.17E-04	4.58E-05	2.34E-05	7.98E-06	1.12E-06	3.41E-07	1.23E-04	6.06E-05	2.34E-05	7.80E-06	7.14E-07	3.00E-07	1.15E-04	5.22E-05	2.23E-05	9.12E-06	1.07E-06	3.56E-07					
2710	415420	4819760	2.43E-04	1.14E-04	5.75E-05	2.49E-05	7.94E-06	5.26E-06	2.33E-04	1.17E-04	7.50E-05	3.09E-05	1.01E-05	7.13E-06	1.17E-04	4.59E-05	2.67E-05	8.89E-06	1.25E-06	3.39E-07	1.39E-04	6.52E-05	2.49E-05	8.29E-06	6.66E-07	3.14E-07	1.18E-04	4.95E-05	2.63E-05	8.99E-06	1.22E-06	3.67E-07					
2711	415460	4819760	2.21E-04	1.09E-04	6.78E-05	2.74E-05	7.26E-06	5.04E-06	2.96E-04	1.11E-04	6.26E-05	2.98E-05	9.19E-06	6.45E-06	1.15E-04	5.24E-05	2.98E-05	9.92E-06	1.32E-06	3.62E-07	1.24E-04	6.05E-05	2.29E-05	7.85E-06	6.95E-07	3.24E-07	1.21E-04	5.51E-05	2.39E-05	9.92E-06	1.35E-06	3.78E-07					
2712	415500	4819760	2.33E-04	1.07E-04	5.69E-05	2.73E-05	6.58E-06	4.55E-06	2.35E-04	9.48E-05	6.20E-05	2.85E-05	8.03E-06	5.44E-06	1.23E-04	5.67E-05	3.24E-05	1.08E-05	1.37E-06	3.72E-07	1.44E-04	5.24E-05	1.97E-05	8.35E-06	7.29E-07	3.35E-07	1.20E-04	5.56E-05	2.30E-05	1.10E-06	1.44E-06	3.88E-07					
2713	415540	4819760	1.75E-04	7.46E-05	3.17E-05	1.32E-05	2.37E-06	3.89E-06	2.07E-04	1.04E-04	4.84E-05	2.23E-05	6.96E-06	1.39E-06	1.21E-04	5.88E-05	3.35E-05	1.12E-05	1.36E-06	3.87E-07	1.40E-04	5.35E-05	2.22E-05	9.45E-06	9.20E-07	3.75E-07	1.28E-04	6.03E-05	3.54E-05	1.16E-06	1.49E-06	3.98E-07					
2714	415580	4819760	1.50E-04	6.75E-05	3.45E-05	1.84E-05	5.03E-06	3.22E-06	1.21E-04	1.09E-04	4.83E-05	2.23E-05	6.88E-06	5.68E-06	3.47E-06	1.15E-04	5.88E-05	3.26E-05	1.10E-05	1.30E-06	3.88E-07	1.59E-04	5.29E-05	2.12E-05	9.24E-06	9.24E-07	3.57E-07	1.29E-04	6.26E-05	3.55E-05	1.22E-06	1.48E-06	4.07E-07				
2715	415620	4819760	1.55E-04	6.95E-05	3.56E-05	1.43E-05	4.29E-06	2.63E-06	1.83E-04	9.04E-05	3.94E-05	1.64E-05	4.65E-06	2.79E-06	1.39E-04	5.80E-05	3.03E-05	1.01E-05	1.18E-06	3.97E-07	1.51E-04	5.03E-05	2.01E-05	7.13E-06	1.33E-06	3.68E-07	1.29E-04	6.29E-05	3.55E-05	1.19E-06	1.40E-06	4.14E-07					
2716	415660	4819760	1.40E-04	7.66E-05	3.67E-05	1.37E-05	3.61E-06	2.15E-06	1.91E-04	7.54E-05	3.53E-05	1.47E-05	3.81E-06	2.27E-06	1.36E-04	5.49E-05	2.63E-05	8.76E-06	1.05E-06	4.06E-07	1.49E-04	4.97E-05	2.64E-05	8.80E-06	1.34E-06	3.39E-07	1.39E-04	6.16E-05	3.32E-05	1.11E-06	1.28E-06	4.22E-07					
2717	415700	4819760	1.13E-04	6.87E-05	2.85E-05	1.09E-05	3.00E-06	1.77E-06	1.88E-04	8.00E-05	3.01E-05	1.33E-05	3.15E-06	1.87E-06	1.16E-04	5.61E-05	2.14E-05	7.89E-06	9.43E-07	1.41E-07	1.55E-04	5.28E-05	3.35E-05	1.12E-05	1.30E-06	3.90E-07	1.41E-04	6.20E-05	2.98E-05	9.62E-06	1.15E-06	4.30E-07					
2718	415740	4819760	1.22E-04	5.54E-05	2.55E-05	1.01E-05	2.51E-06	1.48E-06	1.61E-04	7.57E-05	2.84E-05	1.33E-05	2.87E-06	1.57E-06	1.22E-04	5.57E-05	2.09E-05	9.00E-06	8.90E-07	4.39E-07	1.38E-04	6.04E-05	3.51E-05	1.17E-05	1.26E-06	4.02E-07	1.34E-04	6.06E-05	2.39E-05	8.34E-06	1.02E-06	4.42E-07					
2719	415780	4819760	1.14E-04	5.71E-05	2.20E-05	9.80E-06	2.11E-06	1.25E-06	1.47E-04	6.87E-05	1.67E-05	2.54E-05	2.1E-06	2.61E-06	1.34E-04	5.49E-05	2.06E-05	1.06E-05	9.23E-07	4.60E-07	1.73E-04	6.80E-05	3.73E-05	1.06E-05	1.13E-06	4.15E-07	1.31E-04	6.26E-05	3.93E-05	9.35E-06	9.51E-07	4.58E-07					
2720	415820	4819760	1.94E-04	7.95E-05	3.61E-05	1.87E-05	1.07E-06	5.45E-06	6.04E-06	1.35E-04	6.94E-05	2.96E-05	1.06E-05	2.96E-06	1.17E-04	5.23E-05	3.44E-05	1.24E-05	1.03E-06	4.91E-07	1.66E-04	6.63E-05	2.46E-05	1.01E-05	9.11E-07	4.20E-07	1.30E-04	6.08E-05	2.72E-05	1.11E-06	9.63E-07	8.11E-07					
2721	415860	4819760	1.06E-04	5.22E-05	1.96E-05	8.55E-06	1.66E-06	9.22E-07	1.34E-04	5.72E-05	2.65E-05	8.88E-06	2.15E-06	1.02E-06	1.32E-04	6.03E-05	2.41E-05	1.13E-05	1.21E-06	5.31E-07	1.56E-04	5.39E-05	2.03E-05	8.46E-06	7.90E-07	4.31E-07	1.38E-04	6.25E-05	2.43E-05	1.22E-06	1.05E-06	5.12E-07					
2722	415900	4819760	8.98E-05	3.82E-05	1.71E-05	8.04E-06	1.51E-06	8.04E-07	1.33E-04	6.05E-05	2.62E-05	8.77E-06	1.93E-06	9.16E-07	1.36E-04	5.73E-05	2.54E-05	1.05E-05	1.44E-06	5.80E-07	1.49E-04	5.21E-05	2.27E-05	1.03E-05	8.36E-07	4.57E-07	1.41E-04	6.36E-05	2.62E-05	1.23E-06	1.22E-06	5.51E-07					
2723	415940	4819760	8.42E-05	3.73E-05	1.77E-05	7.20E-06	1.49E-06	7.13E-07	1.40E-04	6.19E-05	2.33E-05	8.37E-06	1.78E-06	8.21E-07	1.29E-04	6.10E-05	3.01E-05	1.25E-05	1.68E-06	6.32E-07	1.75E-04	6.21E-05	2.33E-05	1.18E-05	1.02E-06	5.02E-07	1.45E-04	6.10E-05	2.77E-05	1.14E-06	1.45E-06	5.98E-07					
2724	415980	4819760	8.16E-05	3.72E-05	1.62E-05	6.32E-06	1.29E-06	6.39E-07	1.34E-04	6.09E-05	2.28E-05	8.98E-06	1.62E-06	7.41E-07	1.45E-04	6.99E-05	3.25E-05	1.33E-05	1.91E-06	6.94E-07	1.87E-04	7.42E-05	2.96E-05	1.19E-05	1.27E-06	5.67E-07	1.45E-04	6.13E-05	2.34E-05	1.36E-06	1.70E-06	6.52E-07					
2725	416020	4819760	7.42E-05	3.61E-05	1.52E-05	5.92E-06	1.32E-06	6.39E-07	1.25E-04	5.92E-05	2.11E-05	9.25E-06	1.42E-06	3.73E-07	1.42E-																						

AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL				ESL				EDF				IRC				RESL													
			thr	3hr	6hr	24hr	Month	Annual	thr	3hr	6hr	24hr	Month	Annual	thr	3hr	6hr	24hr		Month	Annual											
2791	416220	4919800	6.31E-5	3.60E-5	1.35E-5	5.21E-6	9.10E-7	4.09E-7	9.17E-8	3.78E-8	1.67E-8	7.95E-9	9.27E-9	4.80E-7	1.33E-4	8.02E-5	3.27E-5	1.31E-5	2.15E-6	1.09E-6	1.98E-6	9.04E-5	3.62E-5	1.56E-5	2.56E-6	1.01E-6	1.49E-6	8.60E-5	3.79E-5	1.70E-5	2.37E-6	9.50E-7
2792	416260	4919800	6.67E-5	3.40E-5	1.29E-5	5.55E-6	9.30E-7	3.81E-7	8.76E-8	3.97E-8	1.75E-8	7.85E-9	8.69E-9	4.54E-7	1.29E-4	8.02E-5	3.60E-5	1.29E-5	2.15E-6	1.09E-6	2.32E-6	1.12E-6	4.42E-5	1.46E-5	2.96E-6	1.11E-6	1.53E-6	9.81E-5	3.81E-5	1.57E-5	2.32E-6	1.01E-6
2793	416300	4919800	6.87E-5	3.50E-5	1.36E-5	5.68E-6	9.58E-7	4.01E-7	9.01E-8	3.91E-8	1.77E-8	7.92E-9	8.71E-9	4.61E-7	1.31E-4	8.12E-5	3.65E-5	1.31E-5	2.18E-6	1.10E-6	2.35E-6	1.13E-6	4.45E-5	1.48E-5	2.99E-6	1.12E-6	1.54E-6	9.91E-5	3.87E-5	1.58E-5	2.37E-6	1.01E-6
2794	416340	4919800	6.47E-5	2.86E-5	1.22E-5	5.31E-6	8.62E-7	3.33E-7	8.67E-8	4.14E-8	1.79E-8	6.31E-9	8.31E-9	4.14E-7	1.32E-4	6.69E-5	3.54E-5	1.24E-5	2.42E-6	1.23E-6	2.41E-6	8.05E-5	4.82E-5	1.63E-5	2.80E-6	1.34E-6	1.44E-6	7.09E-5	4.06E-5	1.45E-5	2.29E-6	1.14E-6
2795	416380	4919800	6.00E-5	2.54E-5	1.15E-5	5.18E-6	6.23E-7	3.13E-7	8.67E-8	4.02E-8	1.68E-8	6.35E-9	8.16E-9	3.94E-7	1.32E-4	7.34E-5	3.51E-5	1.27E-5	2.56E-6	1.31E-6	2.20E-6	8.29E-5	4.71E-5	1.61E-5	2.68E-6	1.45E-6	1.47E-6	7.46E-5	4.05E-5	1.45E-5	2.25E-6	1.20E-6
2796	416420	4919800	5.39E-5	2.24E-5	1.07E-5	4.99E-6	5.69E-7	2.96E-7	8.41E-8	3.81E-8	1.70E-8	6.41E-9	8.07E-9	3.78E-7	1.34E-4	7.14E-5	3.26E-5	1.28E-5	2.67E-6	1.38E-6	2.21E-6	1.04E-6	4.82E-5	1.68E-5	2.84E-6	1.56E-6	1.44E-6	7.55E-5	3.85E-5	1.43E-5	2.61E-6	1.27E-6
2797	416460	4919800	5.17E-5	2.24E-5	9.81E-6	4.70E-6	5.17E-7	2.80E-7	8.20E-8	3.49E-8	1.62E-8	6.75E-9	7.89E-9	3.62E-7	1.33E-4	6.25E-5	3.33E-5	1.37E-5	2.74E-6	1.46E-6	2.22E-6	8.80E-5	3.92E-5	1.57E-5	3.05E-6	1.68E-6	1.42E-6	8.13E-5	3.66E-5	1.46E-5	2.73E-6	1.34E-6
2798	416500	4919800	5.47E-5	2.32E-5	1.07E-5	4.99E-6	5.69E-7	2.96E-7	8.41E-8	3.81E-8	1.70E-8	6.41E-9	8.07E-9	3.78E-7	1.34E-4	7.14E-5	3.26E-5	1.28E-5	2.67E-6	1.38E-6	2.21E-6	1.04E-6	4.82E-5	1.68E-5	2.84E-6	1.56E-6	1.44E-6	7.55E-5	3.85E-5	1.43E-5	2.61E-6	1.27E-6
2799	416540	4919800	4.99E-5	2.32E-5	9.91E-6	4.05E-6	4.73E-7	2.42E-7	8.56E-8	3.13E-8	1.58E-8	6.53E-9	6.90E-9	3.41E-7	1.25E-4	6.54E-5	3.41E-5	1.67E-5	2.67E-6	1.76E-6	2.69E-6	6.69E-5	3.90E-5	1.79E-5	3.06E-6	1.97E-6	1.43E-6	7.88E-5	4.00E-5	1.70E-5	2.86E-6	1.54E-6
2800	416580	4919800	5.16E-5	2.21E-5	9.95E-6	3.47E-6	4.74E-7	2.32E-7	8.38E-8	3.28E-8	1.81E-8	6.51E-9	6.61E-9	3.04E-7	1.20E-4	6.43E-5	3.03E-5	1.60E-5	2.64E-6	1.68E-6	1.76E-6	6.42E-5	3.28E-5	1.80E-5	3.19E-6	2.04E-6	1.35E-6	6.71E-5	3.96E-5	1.80E-5	2.82E-6	1.60E-6
2802	416660	4919800	5.07E-5	2.21E-5	9.75E-6	3.53E-6	4.67E-7	2.23E-7	8.07E-8	3.39E-8	1.81E-8	6.46E-9	6.42E-9	2.92E-7	1.17E-4	6.51E-5	3.02E-5	1.46E-5	2.69E-6	1.71E-6	1.48E-6	6.54E-5	3.59E-5	1.57E-5	3.27E-6	2.09E-6	1.37E-6	6.71E-5	3.64E-5	1.71E-5	2.72E-6	1.64E-6
2803	416700	4919800	4.88E-5	1.99E-5	9.43E-6	3.58E-6	4.58E-7	2.14E-7	7.86E-8	3.45E-8	1.79E-8	6.38E-9	6.30E-9	2.80E-7	1.12E-4	6.41E-5	3.01E-5	1.29E-5	2.68E-6	1.73E-6	1.49E-6	7.09E-5	3.45E-5	1.41E-5	3.32E-6	2.11E-6	1.32E-6	6.70E-5	3.29E-5	1.76E-5	2.63E-6	1.68E-6
2804	416740	4919800	4.92E-5	1.99E-5	9.43E-6	3.58E-6	4.58E-7	2.14E-7	7.86E-8	3.45E-8	1.79E-8	6.38E-9	6.30E-9	2.80E-7	1.12E-4	6.41E-5	3.01E-5	1.29E-5	2.68E-6	1.73E-6	1.49E-6	7.09E-5	3.45E-5	1.41E-5	3.32E-6	2.11E-6	1.32E-6	6.70E-5	3.29E-5	1.76E-5	2.63E-6	1.68E-6
2805	416780	4919800	4.32E-5	1.15E-5	9.63E-6	3.82E-6	4.32E-7	1.98E-7	7.94E-8	3.47E-8	1.73E-8	6.11E-9	5.96E-9	2.59E-7	1.02E-4	6.42E-5	2.78E-5	1.20E-5	2.65E-6	1.72E-6	1.64E-6	7.54E-5	3.42E-5	1.32E-5	3.08E-6	2.07E-6	1.30E-6	7.02E-5	3.33E-5	1.78E-5	2.63E-6	1.72E-6
2806	416820	4919800	4.33E-5	1.62E-5	9.61E-6	3.58E-6	4.41E-7	1.90E-7	7.85E-8	3.43E-8	1.67E-8	5.91E-9	5.74E-9	2.78E-7	1.02E-4	6.31E-5	3.16E-5	1.19E-5	2.67E-6	1.69E-6	1.67E-6	7.27E-5	3.68E-5	1.38E-5	3.04E-6	2.02E-6	1.28E-6	6.75E-5	3.20E-5	1.28E-5	2.66E-6	1.71E-6
2807	416860	4919800	1.06E-5	3.52E-6	1.32E-5	5.60E-6	4.15E-7	1.85E-7	1.10E-6	4.49E-8	1.82E-8	6.05E-9	6.54E-9	2.77E-7	6.01E-5	2.13E-5	9.77E-6	3.26E-6	3.32E-7	3.9E-7	5.70E-5	2.50E-5	9.36E-6	3.13E-6	2.91E-7	3.10E-7	6.35E-5	2.26E-5	1.02E-5	3.41E-6	3.48E-7	1.44E-7
2808	416900	4919800	6.89E-5	3.07E-5	1.22E-5	5.95E-6	4.41E-7	1.85E-7	1.27E-6	4.41E-8	1.81E-8	6.04E-9	6.82E-9	2.83E-7	6.15E-5	2.17E-5	1.02E-5	3.41E-6	3.41E-7	4.13E-7	5.66E-5	2.48E-5	9.29E-6	3.10E-6	3.04E-7	1.33E-7	6.48E-5	2.30E-5	1.06E-5	3.52E-6	3.58E-7	1.48E-7
2809	414500	4919800	6.89E-5	3.51E-5	1.32E-5	6.91E-6	5.50E-7	1.94E-7	1.40E-6	4.66E-8	1.75E-8	6.36E-9	6.89E-9	2.90E-7	6.34E-5	2.21E-5	1.08E-5	3.99E-6	4.49E-7	4.75E-7	5.76E-5	2.43E-5	9.12E-6	3.04E-6	3.17E-7	1.36E-7	6.48E-5	2.35E-5	1.11E-5	3.71E-6	3.66E-7	1.52E-7
2810	414540	4919800	6.89E-5	3.51E-5	1.32E-5	6.91E-6	5.50E-7	1.94E-7	1.40E-6	4.66E-8	1.75E-8	6.36E-9	6.89E-9	2.90E-7	6.34E-5	2.21E-5	1.08E-5	3.99E-6	4.49E-7	4.75E-7	5.76E-5	2.43E-5	9.12E-6	3.04E-6	3.17E-7	1.36E-7	6.48E-5	2.35E-5	1.11E-5	3.71E-6	3.66E-7	1.52E-7
2811	414580	4919800	7.68E-5	3.17E-5	1.28E-5	6.82E-6	7.99E-7	2.23E-7	1.27E-6	4.24E-8	1.91E-8	8.30E-9	7.26E-9	3.18E-7	6.50E-5	2.57E-5	1.16E-5	3.87E-6	3.62E-7	3.55E-7	5.98E-5	2.28E-5	9.15E-6	3.05E-6	3.38E-7	1.42E-7	6.89E-5	2.66E-5	1.21E-5	4.03E-6	3.80E-7	1.61E-7
2812	414620	4919800	7.67E-5	4.79E-5	1.89E-5	6.56E-6	8.28E-7	2.52E-7	1.38E-6	4.94E-8	2.01E-8	9.56E-9	7.96E-9	3.42E-7	6.65E-5	2.80E-5	1.22E-5	4.05E-6	3.74E-7	1.64E-7	6.46E-5	2.23E-5	9.76E-6	3.26E-6	3.56E-7	1.50E-7	7.10E-5	2.89E-5	1.26E-5	4.20E-6	3.92E-7	1.69E-7
2813	414660	4919800	8.37E-5	5.78E-5	2.22E-5	7.46E-6	7.16E-7	2.78E-7	1.41E-6	6.34E-8	2.38E-8	1.02E-8	9.81E-9	3.69E-7	7.07E-5	3.10E-5	1.24E-5	4.12E-6	3.79E-7	1.71E-7	6.76E-5	2.28E-5	1.03E-5	3.43E-6	3.66E-7	1.56E-7	7.33E-5	3.20E-5	1.28E-5	4.28E-6	3.96E-7	1.76E-7
2814	414700	4919800	9.02E-5	4.99E-5	1.89E-5	6.37E-6	6.24E-7	2.98E-7	1.46E-6	6.45E-8	2.42E-8	1.04E-8	1.19E-8	3.88E-7	7.27E-5	3.47E-5	1.30E-5	4.33E-6	3.76E-7	1.77E-7	6.83E-5	2.35E-5	1.06E-5	3.55E-6	3.70E-7	1.60E-7	7.59E-5	3.29E-5	1.35E-5	4.49E-6	4.00E-7	1.82E-7
2815	414740	4919800	9.02E-5	4.99E-5	1.89E-5	6.37E-6	6.24E-7	2.98E-7	1.46E-6	6.45E-8	2.42E-8	1.04E-8	1.19E-8	3.88E-7	7.27E-5	3.47E-5	1.30E-5	4.33E-6	3.76E-7	1.77E-7	6.83E-5	2.35E-5	1.06E-5	3.55E-6	3.70E-7	1.60E-7	7.59E-5	3.29E-5	1.35E-5	4.49E-6	4.00E-7	1.82E-7
2816	414780	4919800	9.55E-5	3.55E-5	1.97E-5	6.58E-6	1.10E-6	3.47E-7	1.62E-6	8.63E-8	3.33E-8	1.2E-8	1.17E-8	4.64E-7	7.28E-5	4.02E-5	1.51E-5	5.03E-6	4.51E-7	1.89E-7	6.94E-5	2.46E-5	1.19E-5	3.96E-6	3.94E-7	1.68E-7	7.94E-5	4.24E-5	1.59E-5	5.30E-6	3.30E-7	1.95E-7
2817	414820	4919800	1.13E-4	4.54E-5	2.58E-5	8.60E-6	1.26E-6	3.84E-7	1.77E-6	7.44E-8	2.84E-8	1.01E-8	1.01E-8	4.94E-7	7.41E-5	4.17E-5	1.57E-5	5.22E-6	4.92E-7	1.95E-7	7.22E-5	2.51E-5	1.26E-5	4.18E-6	4.04E-7	1.72E-7	8.02E-5	4.45E-5	1.67E-5	5.56E-6	4.81E-7	2.02E-7
2818	414860	4919800	1.13E-4	5.20E-5	2.81E-5	9.36E-6	1.10E-6	4.17E-7	1.93E-6	6.44E-8	2.49E-8	1.11E-8	1.52E-8	5.29E-7	7.54E-5	4.22E-5	1.58E-5	5.28E-6	5.30E-7	2.03E-7	7.33E-5	2.76E-5	1.31E-5	4.37E-6	4.11E-7	1.77E-7	8.01E-5	4.56E-5	1.71E-5	5.69E-6	5.21E-7	2.09E-7
2819	414900	4919800	1.14E-4	4.81E-5	2.03E-5	7.48E-6	9.57E-7	4.47E-7	1.76E-6	6.46E-8	3.89E-8	1.30E-8	1.90E-8	5.68E-7	8.03E-5	4.15E-5	1.56E-5	5.43E-6	5.63E-7	2.11E-7	7.51E-5	3.01E-5	1.38E-5	4.52E-6	4.17E-7	1.83E-7	8.21E-5	4.55E-5	1.71E-5	5.69E-6	5.57E-7	2.18E-7
2820	414940	4919800	1.31E-4	4.53E-5	2.17E-5	9.22E-6	1.08E-6	5.05E-7	1.59E-6	8.14E-8	3.17E-8	1.39E-8	1.74E-8	6.17E-7	8.37E-5	3.98E-5	1.49E-5	5.55E-6	5.87E-7	2.20E-7	7.74E-5	3.19E-5	1.38E-5	4.59E-6	4.22E-7	1.90E-7	8.62E-5	4.42E-5	1.68E-5	5.72E-6	5.87E-7	2.27E-7
2821	414980	4919800	1.31E-4	4.53E-5	2.17E-5	9.22E-6	1.08E-6	5.05E-7	1.59E-6	8.14E-8	3.17E-8	1.39E-8	1.74E-8	6.17E-7	8.37E-5	3.98E-5	1.49E-5	5.55E-6	5.87E-7	2.20E-7	7.74E-5	3.19E-5	1.38E-5	4.59E-6	4.22E-7	1.90E-7	8.62E-5	4.42E-5	1.68E-5	5.72E-6	5.87E-7	2.27E-7
2822	415020	4919800	1.40E-4	5.18E-5	2.50E-5	1.01E-6	1.79E-6	7.68E-7	1.65E-6	7.03E-8	2.64E-8	1.26E-8	1.41E-8	7.50E-7	8.34E-5	4.32E-5	1.68E-5	5.81E-6	5.99E-7	2.40E-7	8.32E-5	3.93E-5	1.47E-5	4.91E-6								

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

ID	Easting	Northing	EIL	ESL				Annual	IEDF				Annual	IRC				Annual	RESL				Annual									
				1hr	3hr	8hr	24hr		1hr	3hr	8hr	24hr		1hr	3hr	8hr	24hr		1hr	3hr	8hr	24hr										
2884	415060	4819880	1.59E-04	8.44E-05	3.28E-05	1.25E-05	2.37E-06	9.20E-07	1.94E-04	6.65E-05	3.26E-05	1.37E-05	2.02E-06	9.22E-07	8.63E-05	4.73E-05	1.80E-05	6.01E-06	5.26E-07	2.47E-07	8.27E-05	4.32E-05	1.62E-05	5.50E-06	5.65E-07	2.13E-07	1.03E-04	5.05E-05	1.89E-05	6.31E-06	5.54E-07	2.55E-07
2885	415100	4819880	1.51E-04	5.86E-05	2.40E-05	1.09E-05	2.40E-06	1.07E-06	1.95E-04	8.61E-05	4.21E-05	1.77E-05	2.82E-06	1.16E-06	8.76E-05	4.79E-05	1.81E-05	6.13E-06	5.24E-07	2.56E-07	8.72E-05	4.34E-05	1.63E-05	5.90E-06	5.62E-07	2.12E-07	1.07E-04	5.29E-05	1.98E-05	6.61E-06	5.45E-07	2.64E-07
2886	415140	4819880	1.51E-04	6.69E-05	2.79E-05	1.09E-05	2.44E-06	1.22E-06	1.91E-04	8.46E-05	4.20E-05	1.66E-05	3.35E-06	1.40E-06	9.10E-05	4.68E-05	1.75E-05	6.56E-06	5.74E-07	2.69E-07	9.65E-05	4.16E-05	1.56E-05	6.07E-06	5.74E-07	2.13E-07	1.08E-04	5.34E-05	1.95E-05	6.54E-06	5.47E-07	2.61E-07
2887	415180	4819880	8.48E-05	6.07E-05	2.55E-05	1.10E-05	3.07E-06	1.44E-06	1.68E-04	9.57E-05	4.06E-05	1.60E-05	3.67E-06	1.77E-06	9.55E-05	4.37E-05	1.64E-05	6.96E-06	6.70E-07	2.73E-07	9.70E-05	3.61E-05	1.45E-05	5.77E-06	5.53E-07	2.14E-07	1.07E-04	5.19E-05	1.95E-05	6.73E-06	5.47E-07	2.82E-07
2888	415220	4819880	1.46E-04	5.24E-05	3.24E-05	1.49E-05	3.50E-06	1.82E-06	1.95E-04	8.52E-05	4.17E-05	1.85E-05	4.49E-06	2.28E-06	9.68E-05	4.27E-05	1.66E-05	7.21E-06	7.77E-07	2.81E-07	9.52E-05	4.45E-05	1.75E-05	5.82E-06	5.49E-07	2.51E-07	1.03E-04	4.82E-05	1.81E-05	7.32E-06	7.39E-07	2.91E-07
2889	415260	4819880	1.67E-04	9.14E-05	4.70E-05	1.79E-05	3.94E-06	2.27E-06	3.01E-04	1.29E-04	6.82E-05	2.56E-05	5.50E-06	3.34E-06	9.81E-05	4.24E-05	1.90E-05	7.28E-06	8.93E-07	2.90E-07	1.03E-04	5.19E-05	2.00E-05	6.66E-06	6.25E-07	2.63E-07	1.01E-04	4.81E-05	1.82E-05	7.97E-06	8.53E-07	3.00E-07
2890	415300	4819880	1.73E-04	6.01E-05	3.20E-05	1.79E-05	4.33E-06	2.70E-06	3.08E-04	1.16E-04	6.17E-05	2.91E-05	6.56E-06	4.07E-06	1.02E-04	3.98E-05	2.14E-05	7.13E-06	1.01E-06	2.98E-07	1.19E-04	5.61E-05	2.14E-05	7.13E-06	5.87E-07	2.73E-07	1.02E-04	4.54E-05	2.08E-05	8.01E-06	9.71E-07	3.08E-07
2891	415340	4819880	1.76E-04	6.34E-05	3.43E-05	1.91E-05	4.60E-06	3.13E-06	2.65E-04	1.02E-04	5.96E-05	3.19E-05	6.82E-06	4.63E-06	1.02E-04	4.11E-05	2.40E-05	8.01E-06	1.11E-06	3.96E-07	1.13E-04	5.47E-05	2.07E-05	6.91E-06	6.51E-07	2.69E-07	1.13E-04	5.47E-05	2.07E-05	6.91E-06	9.14E-07	3.08E-07
2892	415380	4819880	1.91E-04	7.35E-05	3.37E-05	2.12E-05	5.46E-06	3.49E-06	2.83E-04	1.06E-04	5.53E-05	3.00E-05	7.56E-06	5.01E-06	1.02E-04	4.61E-05	2.65E-05	8.84E-06	1.17E-06	4.17E-07	1.18E-04	4.40E-05	1.66E-05	6.85E-06	6.32E-07	2.90E-07	1.07E-04	4.49E-05	2.83E-05	8.76E-06	1.19E-06	3.25E-07
2893	415420	4819880	1.53E-04	7.06E-05	3.73E-05	1.85E-05	4.70E-06	3.70E-06	2.25E-04	1.06E-04	5.70E-05	2.49E-05	7.71E-06	5.21E-06	1.07E-04	4.95E-05	2.85E-05	9.50E-06	1.21E-06	3.22E-07	1.23E-04	7.48E-05	1.88E-05	7.93E-06	7.16E-07	3.00E-07	1.06E-04	4.85E-05	2.88E-05	8.60E-06	1.26E-06	3.33E-07
2894	415460	4819880	2.15E-04	9.39E-05	4.09E-05	1.88E-05	5.62E-06	3.75E-06	2.46E-04	1.15E-04	5.78E-05	2.45E-05	7.47E-06	5.14E-06	1.07E-04	5.20E-05	2.96E-05	9.87E-06	1.21E-06	3.29E-07	1.23E-04	4.58E-05	2.02E-05	8.38E-06	9.18E-07	3.10E-07	1.11E-04	5.24E-05	3.08E-05	1.03E-05	1.30E-06	3.41E-07
2895	415500	4819880	1.72E-04	8.66E-05	4.77E-05	1.78E-05	5.38E-06	3.68E-06	1.99E-04	1.02E-04	6.27E-05	2.53E-05	6.87E-06	4.91E-06	1.01E-04	5.23E-05	2.94E-05	9.78E-06	1.16E-06	3.35E-07	1.38E-04	4.58E-05	1.74E-05	7.29E-06	1.11E-06	3.17E-07	1.13E-04	5.44E-05	3.18E-05	1.06E-05	1.29E-06	3.48E-07
2896	415540	4819880	1.88E-04	9.06E-05	5.48E-05	2.16E-05	4.99E-06	3.51E-06	2.50E-04	9.17E-05	5.18E-05	2.16E-05	6.50E-06	4.54E-06	1.15E-04	5.16E-05	2.77E-05	9.23E-06	1.07E-06	3.40E-07	1.30E-04	4.33E-05	1.97E-05	6.87E-06	1.20E-06	3.27E-07	1.14E-04	5.52E-05	3.15E-05	1.05E-05	1.24E-06	3.54E-07
2897	415580	4819880	1.96E-04	8.11E-05	4.34E-05	1.78E-05	4.69E-06	3.23E-06	2.07E-04	8.06E-05	4.53E-05	2.41E-05	6.00E-06	4.00E-06	1.21E-04	4.92E-05	2.47E-05	8.23E-06	9.57E-07	3.48E-07	1.32E-04	4.39E-05	2.47E-05	8.22E-06	9.57E-07	3.48E-07	1.32E-04	4.39E-05	2.47E-05	8.22E-06	9.57E-07	3.48E-07
2898	415620	4819880	1.54E-04	6.39E-05	3.83E-05	1.82E-05	4.43E-06	2.87E-06	1.53E-04	7.30E-05	3.68E-05	2.08E-05	5.39E-06	3.44E-06	1.07E-04	4.92E-05	2.08E-05	7.01E-06	8.50E-07	3.54E-07	1.39E-04	4.64E-05	3.02E-05	1.01E-05	1.18E-06	3.44E-07	1.25E-04	5.27E-05	2.66E-05	8.88E-06	1.03E-06	3.64E-07
2899	415660	4819880	1.37E-04	2.92E-05	2.78E-05	1.68E-05	3.88E-06	2.49E-06	1.78E-04	8.32E-05	3.71E-05	1.63E-05	4.76E-06	2.93E-06	1.07E-04	4.93E-05	1.85E-05	7.01E-06	7.74E-07	3.65E-07	1.26E-04	5.26E-05	3.21E-05	1.07E-05	1.16E-06	3.55E-07	1.23E-04	5.46E-05	2.26E-05	7.54E-06	9.15E-07	3.72E-07
2900	415700	4819880	1.20E-04	5.46E-05	2.74E-05	1.22E-05	3.48E-06	2.14E-06	1.73E-04	8.23E-05	3.97E-05	1.48E-05	4.1E-06	2.46E-06	1.05E-04	4.90E-05	1.84E-05	8.37E-06	7.57E-07	3.80E-07	1.42E-04	5.67E-05	2.69E-05	9.21E-06	1.08E-06	3.62E-07	1.15E-04	5.51E-05	2.07E-05	7.37E-06	8.28E-07	3.82E-07
2901	415740	4819880	1.30E-04	5.76E-05	2.83E-05	1.05E-05	3.08E-06	1.83E-06	1.33E-04	7.82E-05	3.50E-05	1.27E-05	3.56E-06	2.05E-06	1.07E-04	4.87E-05	1.83E-05	9.61E-06	8.17E-07	4.02E-07	1.57E-04	6.02E-05	2.34E-05	9.34E-06	9.04E-07	3.69E-07	1.18E-04	5.35E-05	2.02E-05	8.64E-06	9.97E-07	3.97E-07
2902	415780	4819880	1.17E-04	5.84E-05	2.92E-05	1.07E-05	2.71E-06	1.56E-06	1.60E-04	6.38E-05	2.90E-05	1.15E-05	3.01E-06	1.75E-06	1.12E-04	5.26E-05	2.04E-05	1.02E-05	8.89E-07	4.29E-07	1.36E-04	5.43E-05	2.08E-05	8.26E-06	9.57E-07	3.48E-07	1.36E-04	5.43E-05	2.08E-05	8.26E-06	9.57E-07	3.48E-07
2903	415820	4819880	8.91E-05	5.63E-05	2.47E-05	8.93E-06	2.34E-06	1.34E-06	1.46E-04	6.15E-05	2.75E-05	1.10E-05	2.62E-06	1.19E-06	1.19E-04	5.54E-05	2.17E-05	1.01E-05	1.04E-06	4.61E-07	1.41E-04	4.83E-05	1.82E-05	7.75E-06	7.19E-07	2.45E-07	1.24E-04	5.16E-05	1.97E-05	6.09E-06	4.42E-07	1.60E-07
2904	415860	4819880	1.02E-04	4.52E-05	1.98E-05	7.89E-06	2.01E-06	1.16E-06	1.50E-04	6.40E-05	2.40E-05	9.97E-06	2.35E-06	1.31E-06	1.23E-04	5.25E-05	2.25E-05	9.27E-06	1.23E-06	4.99E-07	1.26E-04	4.77E-05	2.04E-05	7.95E-06	7.66E-07	4.13E-07	1.26E-04	5.90E-05	3.23E-05	1.07E-05	1.04E-06	4.74E-07
2905	415900	4819880	9.89E-05	4.28E-05	1.92E-05	7.41E-06	1.74E-06	1.01E-06	1.65E-04	6.26E-05	2.35E-05	1.02E-05	2.14E-06	1.14E-06	1.25E-04	5.25E-05	2.68E-05	1.10E-05	1.42E-06	5.40E-07	1.57E-04	5.68E-05	1.31E-05	9.05E-06	9.33E-07	4.49E-07	1.30E-04	5.80E-05	2.39E-05	1.01E-05	1.23E-06	5.10E-07
2906	415940	4819880	9.54E-05	4.31E-05	1.64E-05	5.65E-06	1.59E-06	8.90E-07	1.32E-04	5.47E-05	2.07E-05	1.00E-06	2.01E-06	1.01E-06	1.28E-04	6.06E-05	2.92E-05	1.21E-05	1.61E-06	8.84E-07	1.64E-04	6.49E-05	2.57E-05	1.06E-05	1.12E-06	4.99E-07	1.29E-04	5.34E-05	2.86E-05	1.18E-05	1.42E-06	5.90E-07
2907	415980	4819880	9.15E-05	4.73E-05	1.77E-05	6.77E-06	1.44E-06	7.87E-07	1.22E-04	5.06E-05	2.14E-																					

ENGINEERING CALCULATIONS AND ANALYSIS
AERMOD Screening Dispersion Factors for INL Facilities

Rec ID	Easting m	Northing m	EIL					ESL					IEDF					IRC					RESL									
			1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual	1hr	3hr	8hr	24hr	Month	Annual						
3070	415180	4820000	7.11E-05	5.04E-05	2.21E-05	8.63E-06	2.45E-06	1.14E-06	1.50E-04	8.77E-05	3.59E-05	1.30E-05	3.08E-06	1.49E-06	8.90E-05	3.74E-05	1.74E-05	6.52E-06	8.21E-07	2.56E-07	1.01E-04	4.86E-05	1.85E-05	6.17E-06	5.18E-07	2.38E-07	9.07E-05	4.10E-05	1.68E-05	7.11E-06	7.85E-07	2.63E-07
3071	415220	4820000	1.05E-04	3.74E-05	2.42E-05	1.13E-05	2.78E-06	1.37E-06	1.53E-04	6.71E-05	3.92E-05	1.36E-05	3.67E-06	1.81E-06	9.13E-05	3.54E-05	1.95E-05	6.51E-06	9.13E-07	2.63E-07	1.01E-04	4.87E-05	1.84E-05	6.15E-06	5.07E-07	2.47E-07	9.21E-05	3.96E-05	1.89E-05	7.10E-06	8.83E-07	2.70E-07
3072	415260	4820000	1.40E-04	6.65E-05	3.60E-05	1.35E-05	2.99E-06	1.65E-06	2.40E-04	9.34E-05	5.03E-05	1.88E-05	4.16E-06	2.28E-06	9.15E-05	3.69E-05	2.17E-05	7.23E-06	9.91E-07	2.69E-07	9.64E-05	4.22E-05	1.58E-05	5.94E-06	5.43E-07	2.53E-07	9.42E-05	3.81E-05	2.11E-05	7.04E-06	9.75E-07	2.77E-07
3073	415300	4820000	1.36E-04	6.38E-05	3.25E-05	1.43E-05	3.20E-06	1.91E-06	2.91E-04	1.21E-04	5.85E-05	2.20E-05	4.80E-06	2.84E-06	9.13E-05	4.10E-05	2.37E-05	7.90E-06	1.05E-06	2.75E-07	1.07E-04	4.13E-05	1.55E-05	6.70E-06	5.84E-07	2.61E-07	9.59E-05	3.96E-05	2.33E-05	7.78E-06	1.05E-06	2.84E-07
3074	415340	4820000	1.38E-04	4.70E-05	2.44E-05	1.35E-05	3.37E-06	2.16E-06	2.73E-04	9.41E-05	4.85E-05	2.24E-05	5.15E-06	3.27E-06	9.99E-05	4.42E-05	2.53E-05	8.44E-06	1.08E-06	2.81E-07	1.06E-04	4.23E-05	1.76E-05	7.27E-06	7.22E-07	2.69E-07	9.44E-05	4.29E-05	2.54E-05	8.47E-06	1.11E-06	2.90E-07
3075	415380	4820000	1.50E-04	5.22E-05	2.74E-05	1.52E-05	3.64E-06	2.42E-06	2.28E-04	8.15E-05	4.77E-05	2.53E-05	5.28E-06	3.55E-06	9.64E-05	4.61E-05	2.63E-05	8.76E-06	1.08E-06	2.87E-07	1.13E-04	3.84E-05	1.83E-05	7.33E-06	8.82E-07	2.76E-07	9.85E-05	4.60E-05	2.71E-05	9.02E-06	1.14E-06	2.96E-07
3076	415420	4820000	1.56E-04	5.61E-05	2.72E-05	1.66E-05	4.12E-06	2.63E-06	2.36E-04	8.64E-05	4.40E-05	2.42E-05	5.94E-06	3.79E-06	9.25E-05	4.66E-05	2.63E-05	8.76E-06	1.04E-06	2.92E-07	1.18E-04	3.92E-05	1.71E-05	6.44E-06	1.02E-06	2.84E-07	1.01E-04	4.77E-05	2.80E-05	9.33E-06	1.14E-06	3.01E-07
3077	415460	4820000	1.22E-04	5.53E-05	2.87E-05	1.47E-05	4.31E-06	2.75E-06	1.74E-04	8.20E-05	4.66E-05	1.93E-05	5.94E-06	3.90E-06	9.88E-05	4.68E-05	2.52E-05	8.39E-06	9.69E-07	2.96E-07	1.12E-04	3.90E-05	1.93E-05	6.47E-06	1.06E-06	2.90E-07	1.02E-04	4.88E-05	2.79E-05	9.31E-06	1.10E-06	3.06E-07
3078	415500	4820000	1.74E-04	7.02E-05	3.26E-05	1.44E-05	4.16E-06	2.80E-06	2.29E-04	9.99E-05	4.71E-05	2.04E-05	5.61E-06	3.89E-06	1.06E-04	4.54E-05	2.30E-05	7.67E-06	8.78E-07	3.01E-07	1.16E-04	3.98E-05	2.29E-05	7.63E-06	1.05E-06	2.98E-07	1.06E-04	4.90E-05	2.68E-05	8.93E-06	1.03E-06	3.10E-07
3079	415540	4820000	1.77E-04	7.62E-05	3.50E-05	1.42E-05	4.05E-06	2.78E-06	1.72E-04	8.57E-05	4.95E-05	1.85E-05	5.33E-06	3.80E-06	1.05E-04	4.34E-05	2.00E-05	6.68E-06	7.83E-07	3.06E-07	1.24E-04	4.24E-05	2.72E-05	9.09E-06	1.08E-06	3.06E-07	1.12E-04	4.74E-05	2.45E-05	8.18E-06	9.33E-07	3.14E-07
3080	415580	4820000	1.30E-04	6.57E-05	3.90E-05	1.57E-05	3.85E-06	2.71E-06	1.77E-04	8.65E-05	5.22E-05	2.08E-05	5.17E-06	3.63E-06	9.53E-05	4.40E-05	1.66E-05	6.13E-06	7.01E-07	3.12E-07	1.14E-04	4.64E-05	2.90E-05	9.66E-06	1.06E-06	3.13E-07	1.12E-04	4.72E-05	2.14E-05	7.15E-06	8.33E-07	3.19E-07
3081	415620	4820000	1.59E-04	7.42E-05	4.43E-05	1.72E-05	3.75E-06	2.59E-06	2.12E-04	7.70E-05	4.38E-05	1.83E-05	4.88E-06	3.39E-06	9.80E-05	4.35E-05	1.63E-05	6.48E-06	6.50E-07	3.22E-07	1.15E-04	4.89E-05	2.56E-05	8.55E-06	1.01E-06	3.18E-07	1.07E-04	4.82E-05	1.81E-05	6.37E-06	7.45E-07	3.25E-07
3082	415660	4820000	1.65E-04	6.31E-05	3.41E-05	1.40E-05	3.55E-06	2.41E-06	1.75E-04	6.72E-05	4.07E-05	2.03E-05	4.63E-06	3.07E-06	9.64E-05	4.35E-05	1.63E-05	7.75E-06	6.76E-07	3.35E-07	1.42E-04	5.27E-05	2.19E-05	8.32E-06	9.96E-07	3.25E-07	1.05E-04	4.79E-05	1.80E-05	6.62E-06	6.85E-07	3.34E-07
3083	415700	4820000	1.36E-04	5.30E-05	3.18E-05	1.44E-05	3.34E-06	2.20E-06	1.48E-04	5.88E-05	3.21E-05	1.95E-05	4.31E-06	2.75E-06	9.86E-05	4.34E-05	1.67E-05	8.67E-06	7.26E-07	3.53E-07	1.25E-04	5.19E-05	1.99E-05	7.92E-06	7.61E-07	3.31E-07	1.04E-04	4.65E-05	1.74E-05	7.96E-06	9.55E-07	3.47E-07
3084	415740	4820000	1.16E-04	4.47E-05	2.44E-05	1.43E-05	3.08E-06	1.98E-06	1.25E-04	5.87E-05	3.11E-05	1.56E-05	3.93E-06	2.41E-06	1.02E-04	4.74E-05	1.85E-05	9.08E-06	7.79E-07	3.75E-07	1.17E-04	4.55E-05	1.71E-05	6.69E-06	6.69E-07	3.39E-07	1.07E-04	4.65E-05	1.77E-05	8.97E-06	7.44E-07	3.63E-07
3085	415780	4820000	1.05E-04	4.35E-05	2.17E-05	1.21E-05	2.83E-06	1.76E-06	1.51E-04	6.54E-05	3.14E-05	1.23E-05	3.96E-06	2.11E-06	1.07E-04	4.90E-05	1.94E-05	8.91E-06	9.02E-07	4.01E-07	1.24E-04	4.40E-05	1.69E-05	7.62E-06	6.44E-07	3.50E-07	1.11E-04	5.02E-05	1.95E-05	9.49E-06	7.97E-07	3.85E-07
3086	415820	4820000	1.01E-04	4.34E-05	2.19E-05	9.15E-06	2.59E-06	1.55E-06	1.43E-04	6.66E-05	3.34E-05	1.20E-05	3.20E-06	1.84E-06	1.11E-04	4.76E-05	1.98E-05	8.27E-06	1.06E-06	4.31E-07	1.17E-04	4.28E-05	1.79E-05	9.05E-06	6.98E-07	3.71E-07	1.13E-04	5.25E-05	2.08E-05	9.45E-06	8.99E-07	4.10E-07
3087	415860	4820000	1.09E-04	4.72E-05	2.30E-05	8.39E-06	2.36E-06	1.36E-06	1.10E-04	6.73E-05	3.05E-05	1.08E-05	2.82E-06	1.60E-06	1.07E-04	4.47E-05	2.36E-05	9.67E-06	1.22E-06	4.64E-07	1.38E-04	5.13E-05	1.92E-05	9.54E-06	8.41E-07	4.00E-07	1.16E-04	5.19E-05	2.07E-05	8.88E-06	1.05E-06	4.39E-07
3088	415900	4820000	9.79E-05	4.60E-05	2.38E-05	8.54E-06	2.12E-06	1.20E-06	1.26E-04	5.81E-05	2.46E-05	9.72E-06	2.46E-06	1.39E-06	1.12E-04	5.25E-05	2.61E-05	1.07E-05	1.37E-06	4.99E-07	1.43E-04	5.78E-05	2.29E-05	9.39E-06	9.84E-07	4.36E-07	1.16E-04	4.83E-05	2.48E-05	1.00E-05	1.21E-06	4.71E-07
3089	415940	4820000	7.57E-05	4.63E-05	2.21E-05	7.50E-06	1.89E-06	1.05E-06	1.31E-04	5.44E-05	2.38E-05	9.05E-06	2.16E-06	1.23E-06	1.18E-04	5.67E-05	2.68E-05	1.11E-05	1.50E-06	5.35E-07	1.59E-04	5.81E-05	2.36E-05	9.02E-06	1.05E-06	4.79E-07	1.13E-04	5.21E-05	2.78E-05	1.13E-05	1.36E-06	5.05E-07
3090	415980	4820000	8.13E-05	4.06E-05	1.64E-05	6.77E-06	1.67E-06	9.34E-07	1.17E-04	5.04E-05	2.19E-05	8.46E-06	1.98E-06	1.08E-06	1.15E-04	5.58E-05	2.54E-05	1.08E-05	1.61E-06	5.71E-07	1.34E-04	4.82E-05	2.89E-05	1.17E-05	1.33E-06	5.27E-07	1.21E-04	5.77E-05	2.91E-05	1.19E-05	1.51E-06	5.40E-07
3091	416020	4820000	8.56E-05	3.57E-05	1.59E-05	6.09E-06	1.44E-06	8.20E-07	1.21E-04	5.28E-05	1.96E-05	7.88E-06	1.79E-06	9.50E-07	1.12E-04	5.03E-05	2.27E-05	1.19E-05	1.71E-06	6.08E-07	1.65E-04	6.89E-05	3.35E-05	1.37E-05	1.60E-06	5.66E-07	1.23E-04	5.97E-05	2.88E-05	1.18E-05	1.63E-06	5.76E-07
3092	416060	4820000	7.91E-05	3.34E-05	1.48E-05	5.74E-06	1.33E-06	7.36E-07	1.10E-04	5.26E-05	1.97E-05	8.09E-06	1.66E-06	8.60E-07	1.17E-04	5.07E-05	2.31E-05	1.29E-05	1.77E-06	6.41E-07	1.74E-04	7.21E-05	3.17E-05	1.31E-05	1.74E-06	6.10E-07	1.21E-04	5.56E-05	2.64E-05	1.28E-05	1.73E-06	6.09E-07
3093	416100	4820000	7.84E-05	3.57E-05	1.34E-05	5.42E-06	1.23E-06	6.65E-07	1.15E-04	4.73E-05	1.77E-05	8.53E-06	1.56E-06	7.81E-07	1.14E-04	5.59E-05	2.59E-05	1.28E-05	1.80E-06	6.77E-07	1.43E-04	6.00E-05	2.54E-05	1.22E-05	1.76E-06	6.56E-07	1.26E-04	5.49E-05	2.43E-05	1.36E-05	1.81E-06	6.42E-07
3094	416140	4820000	7.60E-05	3.85E-05	1.45E-05	5.50E-06	1.15E-06	6.07E-07	1.06E-04	4.12E-05	1.78E-05	8.07E-06	1.52E-06	7.22E-07	1.09E-04	6.62E-05	2.74E-05	1.25E-05	1.81E-06	1.71E-07	1.71E-04	6.37E-05	2.50E-05	1.44E-05	1.84E-06	7.09E-07	1.25E-04	5.49E-05	2.79E-05	1.41E-05	1.86E-06	6.79E-07
3095	416180	4820000	7.23E-05	3.68E-05	1.38E-05	5.50E-06	1.06E-06	5.54E-07	1.06E-04	4.17E-05	1.88E-05	7.37E-06	1.47E-06	6.66E-07	1.14E-04	6.99E-05	2.76E-05	1.17E-05	1.78E-06	7.59E-07	1.61E-04	6.23E-05	2.82E-05	1.43E-05	1.96E-06	7.59E-07	1.27E-04	6.34E-05	3.00E-05	1.40E-05	1.88E-06	7.14E-07
3096	416220	4820000	6.88E-05	3.18E-05	1.19E-05	5.42E-06	9.92E-07	5.08E-07	1.02E-04	4.10E-05																						