

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of:	Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)
	ASLBP #: 07-858-03-LR-BD01 Docket #: 05000247 05000286 Exhibit #: NYS00270B-00-BD01 Admitted: 10/15/2012 Rejected: Other:
	Identified: 10/15/2012 Withdrawn: Stricken: 2/19/2013

NYS00270B
Submitted: December 21, 2011

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APPENDIX E
Applied Substitution Reports
(Updated for Rev. 1)

Applied Data Substitution for METI00ExcelR

The following is a description of the substitution process used for missing meteorological data in the 2000 data set. We are providing substitution methods for missing data, but we have not reviewed the remaining data for acceptability or correctness. The substitution methods used were similar to the recommended methodology described in *Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models* by Dennis Atkinson and Russell F. Lee (1992). The original raw meteorological data was imported and stored on the sheet named I200001. Data needed for the creation of the ascii files were exported to the Data Reduction & Missing Data sheet. The data substitution was performed on this sheet. The data is presented by Julian day (JUL.DAY) and time (TIME).

Day 95 Times 1 through 8

Eight hours of temperature difference data was missing. The data was interpolated between Day 95 Time 0 and Day 95 Time 9. The calculated stability class was 5 between Day 94 Time 18 through Day 95 Time 9 with the value of 4 for 27 hours after.

Day 104 Times 9 and 10

Two hours of data (wind direction, wind speed, temperature difference and precipitation) was missing.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

The missing values were interpolated from the before and after valid data values.

Temperature Difference

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Precipitation

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Day 104 Time 18

One hour of data (wind direction, wind speed, temperature difference and precipitation) was missing.

Wind Direction

For wind direction the average of the before and after valid data values were used to substitute the missing data.

Wind Speed

The average wind speed of the before and after valid data values was used to calculate the missing wind speed.

Temperature Difference

The temperature difference values were interpolated using the valid data values before and after the missing data.

Precipitation

The two hours (one on each side of the missing data point) of precipitation data were zero. Therefore the interpolated value was also zero.

Day 255 Times 17 and 18

Two hours of data (wind direction, wind speed, temperature difference and precipitation) were missing.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Temperature Difference

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Precipitation

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Day 294 Times 9 and 10

Two hours of data was missing. The subjective method as described by Atkinson and Lee was used.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Temperature Difference

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Precipitation

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Day 316 Time 13 through Day 319 Time 14

Seventy-four hours of 10-meter wind direction data was missing. To maintain consistency and wind variability, data from the 60-meter sensor was substituted for the missing 10-meter data.

Applied Data Substitution for METI01ExcelR

The following is a description of the substitution process used for missing meteorological data in the 2001 data set. We are providing substitution methods for missing data, but we have not reviewed the remaining data for acceptability or correctness. The substitution methods used were similar to the recommended methodology described in *Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models* by Dennis Atkinson and Russell F. Lee (1992). The original raw meteorological data was imported and stored on the sheet named I200101. Data needed for the creation of the ascii files were exported to the Data Reduction & Missing Data sheet. The data substitution was performed on this sheet. The data is presented by Julian day (JUL.DAY) and time (TIME).

Day 36 Times 16 through 19

Four hours of temperature difference data was missing. The data was interpolated between Day 36 Time 15 and 20.

Day 72 Time 22 through Day 73 Time 7

Ten hours of temperature difference data was missing. The data from hour 21 was used for this period.

Day 82 Time 0 through Day 87 Time 11

132 hours of temperature difference data were missing (upper – lower level temperature difference). The temperature difference data from the intermediate and lower instrument levels were used to substitute the missing data values.

Day 109 Time 9

One hour of data (wind direction, wind speed, temperature difference and precipitation) was missing.

Wind Direction

For wind direction the average of the before and after valid data values were used to substitute the missing data.

Wind Speed

The average wind speed of the before and after valid data values was used to calculate the missing wind speed.

Temperature Difference

The temperature difference values were interpolated using the valid data values before and after the missing data.

Day 283 Times 10 and 11

Two hours of data (wind direction, wind speed, and temperature difference) was missing.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Temperature Difference

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Day 285 Times 6 and 7

Two hours of temperature difference data was missing. The data was interpolated between Day 285 Time 5 and 8 and used to substitute the missing data.

Applied Data Substitution for METI02ExcelR

The following is a description of the substitution process used for missing meteorological data in the 2002 data set. We are providing substitution methods for missing data, but we have not reviewed the remaining data for acceptability or correctness. The substitution methods used were similar to the recommended methodology described in *Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models* by Dennis Atkinson and Russell F. Lee (1992). The original raw meteorological data was imported and stored on the sheet named I200202. Data needed for the creation of the ascii files were exported to the Data Reduction & Missing Data sheet. The data substitution was performed on this sheet. The data is presented by Julian day (JUL.DAY) and time (TIME).

Day 068 time (2 through 11)

Ten hours of temperature difference data was missing. The data was interpolated between Day 68 Time 1 and 12 and used to substitute the missing data.

Day 106 time (9)

One hour of data (wind direction, wind speed, temperature difference and precipitation) was missing.

Wind Direction

For wind direction the average of the before and after valid data values were used to substitute the missing data.

Wind Speed

The average wind speed of the before and after valid data values was used to calculate the missing wind speed.

Temperature Difference

The temperature difference values were interpolated using the valid data values before and after the missing data.

Day 121 times (1 through 6)

Six hours of temperature difference data was missing. The data was interpolated between Day 121 Time 0 and 7.

Day 138 times (11 and 12)

Wind Speed

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Day 149 time (6) through day 154 time (7)

One-hundred-twenty-two hours of 10-meter wind direction data was missing. To maintain consistency and wind variability, data from the 60-meter sensor was substituted for the missing 10-meter data.

Day 152 times (2 and 3)

Two hours of temperature difference data was missing. The temperature difference values were interpolated using the before and after valid data values.

Day 281 time (9)

One hour of data (wind direction, wind speed, temperature difference and precipitation) was missing.

Wind Direction

For wind direction the average of the before and after valid data values were used to substitute the missing data.

Wind Speed

The average wind speed of the before and after valid data values was used to calculate the missing wind speed.

Temperature Difference

The temperature difference values were interpolated using the valid data values before and after the missing data.

Day 359 times (16 through 23)

Eight hours of temperature difference data was missing. The missing data was interpolated between Day 359 Time 15 and Day 359 Time 24.

Applied Data Substitution for METI03ExcelR

The following is a description of the substitution process used for missing meteorological data in the 2003 data set. We are providing substitution methods for missing data, but we have not reviewed the remaining data for acceptability or correctness. The substitution methods used were similar to the recommended methodology described in *Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models* by Dennis Atkinson and Russell F. Lee (1992). The original raw meteorological data was imported and stored on the sheet named I200103. Data needed for the creation of the ascii files were exported to the Data Reduction & Missing Data sheet. The data substitution was performed on this sheet. The data is presented by Julian day (JUL.DAY) and time (TIME).

Day 001 times (0 through 7)

Eight hours of temperature difference data was missing. The data was interpolated between Year 2002 Day 365 Time 24 and Year 2003 Day 1 Time 8.

Day 120 times (9 and 10)

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

The missing wind speed values were interpolated from the valid data preceding and following the missing data.

Temperature Difference

The missing temperature difference values were interpolated from the valid data preceding and following the missing data.

Day 287 times (10, 11, and 12)

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

The missing wind speed values were interpolated from the valid data preceding and following the missing data.

Temperature Difference

The missing temperature difference values were interpolated from the valid data preceding and following the missing data.

Applied Data Substitution for METI04ExcelR

The following is a description of the substitution process used for missing meteorological data in the 2004 data set. We are providing substitution methods for missing data, but we have not reviewed the remaining data for acceptability or correctness. The substitution methods used were similar to the recommended methodology described in *Procedures for Substituting Values for Missing NWS Meteorological Data for Use in Regulatory Air Quality Models* by Dennis Atkinson and Russell F. Lee (1992). The original raw meteorological data was imported and stored on the sheet named I200402. Data needed for the creation of the ascii files were exported to the Data Reduction & Missing Data sheet. The data substitution was performed on this sheet. The data is presented by Julian day (JUL.DAY) and time (TIME).

Day 001 time (0) through day 036 time (11)

852 hours of temperature difference data were missing (upper – lower level temperature difference). The temperature difference data from the intermediate and lower level instruments were used to substitute the missing values.

Day 118 times (9 and 10)

Two hours of data (wind direction, wind speed, and temperature difference) was missing.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

The missing wind speed values were interpolated from the valid data preceding and following the missing data.

Temperature Difference

The missing temperature difference values were interpolated from the valid data preceding and following the missing data.

Day 292 times (9, 10, and 11)

Three hours of data (wind direction, wind speed, and temperature difference) was missing.

Wind Direction

Interpolated values, derived from the before and after valid data values, were substituted for the missing data.

Wind Speed

The missing wind speed values were interpolated from the valid data preceding and following the missing data.

Temperature Difference

The missing temperature difference values were interpolated from the valid data preceding and following the missing data.

Day 313 time (1) through day 366 time (23)

1296 hours of temperature difference data were missing (upper – lower level temperature difference). The temperature difference data from the intermediate and lower instrument levels were used to substitute the missing values.

APPENDIX F
VNFRM Estimates Including Economic Loss Report
Revision 1
(Updated for Rev. 1)

SITE SPECIFIC MACCS2 INPUT DATA FOR
INDIAN POINT
ENERGY CENTER

VNFRM ESTIMATES INCLUDING ECONOMIC LOSS
Revision 1

Prepared for
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December 1, 2009

1.0 Introduction

ENERCON developed a Severe Accident Mitigation Alternatives *Site Specific Maccs2 Input Data For Indian Point Energy Center* Report dated April 7, 2006. While MACCS2 computer code was designed to assess risk, the computer models and codes implementing the model contained a variety of simplifications and assumptions, especially with respect to economic costs of severe accidents. A modified approach to the MACCS2 model may be warranted to modify some of the calculations to the input parameters such as the VNFRM (value to non-farm property). Pursuant to a request from Entergy, ENERCON has developed a modification of the input parameters to the VNFRM to better address the county and metropolitan area gross domestic product, and indicators of tourism, business loss, lost wages, etc. The development of modified VNFRM values, approach, and input data is described in the following sections.

2.0 Background

The likelihood of an accident occurring at a nuclear power facility is extremely rare but such accidents are routinely analyzed so an accurate picture can be obtained of the risks posed by the operation of these facilities. Analysis of potential accidents have focused primarily on the health effects, but economic consequences may be superficially treated. This dichotomy is in part due to the Price-Anderson Nuclear Industries Indemnity Act (commonly called the Price-Anderson Act) in which the United States federal government indemnifies all non-military nuclear facilities constructed in the United States before 2026. In addition, the Act establishes a no fault insurance-type system in which roughly the first \$10 billion in damages associated with a nuclear incident is paid for by an industry-funded instrument and any claims above this value are guaranteed to be subsequently covered by the federal government.

Severe Accident Mitigation Alternatives (SAMAs) analysis is limited to providing the data files used by the MELCOR Accident Consequence Code System Version 2 (MACCS2, Chanin & Young, 1997) for estimating atmospheric transport, short-term and long term mitigative actions and exposure pathways, deterministic and stochastic health effects, and economic costs of severe accidents. The data files contained herein are specific to IP2 and IP3 and used by MACCS2 to generate the range and probability of the health effects and the economic costs and losses that might result an accident.

While MACCS2 computer code was designed to assess risk, the computer models and codes implementing the model contained a variety of simplifications and assumptions, especially with respect to economic costs of severe accidents. The MACCS2 VNFRM parameter is based upon fixed reproducible tangible wealth, a measure of the durable goods that are owned in an area [Enercon, 2006]. A modified approach to the MACCS2 model was completed to modify some of the calculations to the input parameters such as the VNFRM (value to non-farm property). Modification of the MACCS2 VNFRM input parameter was developed to better address the county and metropolitan area economic

output (e.g. gross domestic product, and indicators of tourism, business loss, lost wages, etc) with available datasets to account for more economic activity.

3.0 Methods

Measures of total economic activity were obtained by examining a suite of products related to the National Gross Domestic Product (GDP) which measure the total value of goods and services produced in an area. GDP and the analogous Gross State Product (GSP) are estimated by the Bureau of Economic Analysis, U.S. Department of Commerce. Gross Metro Product (GMP) is the metro-area equivalent of GSP and is derived by Global Insight using state GSP data.

GMP is reported (Global Insight 2006) by Metropolitan and Statistical Area (MSA) or Division (MSD) standards defined by the Office of Management and Budget (OMB) in Federal Register 65 No. 249 (pages 82228-82238). MSAs are associated with at least one urbanized area, have a population of at least 50,000, and are comprised of a central county or counties containing the core area, plus adjacent outlying counties that are economically integrated the central county. MSDs have a core with a population of at least 2.5 million and consist of one or more main/secondary counties that represent an employment center or centers, plus adjacent counties associated with the main county or counties through commuting ties.

There are three MSDs and five MSAs (Table 1) within the 50 mile buffer surrounding IP2 and IP3 and all counties within the study area except two (Litchfield, CT and Sullivan, NY).

Table 1:
County(ies) which comprise Metropolitan Statistical Area/Divisions
(Counties in bold are included in IP2 and IP3 SAMA)

Metropolitan Statistical Area	Metropolitan Division	County
Bridgeport-Stamford-Norwalk, CT		Fairfield County, CT
Kingston, NY		Ulster County, NY
New Haven-Milford, CT		New Haven County, CT
New York-Northern New Jersey-Long Island, NY-NJ-PA	Nassau-Suffolk, NY	Nassau County, NY
		Suffolk County, NY
	New York-White Plains-Wayne, NY-NJ	Bergen County, NJ
		Hudson County, NJ
		Passaic County, NJ
		Bronx County, NY
		Kings County, NY
		New York County, NY
		Putnam County, NY
		Queens County, NY
		Rockland County, NY
		Westchester County, NY

	Newark-Union, NJ-PA	Essex County, NJ
		Morris County, NJ
		Sussex County, NJ
		Union County, NJ
		Pike County, PA
		Hunterdon County, NJ
		Middlesex County, NJ
		Monmouth County, NJ
		Ocean County, NJ
		Somerset County, NJ
Poughkeepsie-Newburgh-Middletown, NY		Richmond County, NY
		Dutchess County, NY
		Orange County, NY

The most recent GMP values (2004) were obtained and were partitioned to Gross County Product (GCP) using the following methodology (in order of increasing complexity) [Global Insight 2006]

A) GCP values for the Bridgeport-Stamford-Norwalk, CT, Kingston, NY, and New Haven-Milford, CT MSAs were simply assigned their respective GMPs (Table 2) as these MSAs were comprised of only one county.

Table 2
GMP for Metropolitan Statistical Area/Divisions

Metropolitan Statistical Area / Division	2004 GMP (in billions)
Bridgeport-Stamford-Norwalk, CT	49.8
Kingston, NY	6.3
New Haven-Milford, CT	40.8
New York-Northern New Jersey-Long Island, NY-NJ-PA	901.3 (total)
Nassau-Suffolk, NY	126.3
New York-White Plains-Wayne, NY-NJ	560.3
Newark-Union, NJ-PA	108.1
Remainder of MSA	106.6
Poughkeepsie-Newburgh-Middletown, NY	24.8

B) The Nassau-Suffolk, NY and Poughkeepsie-Newburgh-Middletown, NY MSA/D GMPs were converted to county level GCP by multiplying the ratio of the county estimated 2004 annual employment to the total 2004 annual employment (BLS 2006) for the entire MSA/D (Table 3). For instance, Poughkeepsie-Newburgh-Middletown, NY is comprised of Dutchess and Orange counties (116,132 and 126,317 estimated employment in 2004 respectively) thus:

Dutchess County GCP is estimated to be $\$24.8B * 116,132 / (116,132 + 126,317)$ and Orange County GCP for Orange county is $\$24.8B * 126,317 / (116,132 + 126,317)$

Table3
2004 estimated employment and population

County	2004 estimated employment	2004 estimated population
Fairfield, CT	409,869	901,819
Litchfield, CT	62,302	189,258
New Haven, CT	360,608	844,342
Bergen, NJ	445,711	901,745
Essex, NJ	356,454	795,015
Hudson, NJ	232,221	605,359
Morris, NJ	280,652	487,437
Passaic, NJ	175,075	498,939
Sussex, NJ	40,260	152,117
Union, NJ	232,296	530,846
Bronx, NY	215,581	1,362,523
Dutchess, NY	116,132	293,322
Kings, NY	446,853	2,497,859
Nassau, NY	595,364	1,337,693
New York, NY	2,213,970	1,590,911
Orange, NY	126,317	369,511
Putnam, NY	23,973	100,378
Queens, NY	474,051	2,250,718
Rockland, NY	111,146	293,049
Suffolk, NY	596,156	1,474,519
Sullivan, NY	25,561	75,908
Ulster, NY	61,764	181,824
Westchester, NY	408,985	941,380

C) To calculate GCP for counties in the New York-Northern New Jersey-Long Island, and NY-NJ-PA MSA, a two stage analysis was used. First, state portions of the MSA's GMP were obtained for NY (\$589.46B), NJ (\$310.83B) and PA (\$.97B) (all data from Global Insight 2006) and were partitioned to GMP for their respective counties. GCP was then calculated by multiplying the ratio of the county estimated 2004 annual employment to the total 2004 annual employment (BLS 2006) for the entire MSA/D (Table 3).

D) GCP for the counties that are not part of any MSA/D (Litchfield, CT and Sullivan, NY) were calculated by subtracting the sum of all GMPs in that state from the GSP (\$185.8B for CT and \$896.7B for NY) and partitioning the remaining dollars to each county using the ratio of the county estimated 2004 annual employment to the total 2004 annual employment (BLS 2006) for the remaining counties.

4.0 Results

Similar to the initial SAMA input data report created for IP2 and IP3, Hudson NJ, Bronx, NY, Queens NY, and New York, NY, data were combined into the composite economic region Queens [Enercon, April 7, 2006]. Counties that did not comprise more than 50% of any spatial element were not included as economic regions in this evaluation. For the final calculation of the modified VNFRM, Gross County Product values calculated in

Table 4 were divided by 2004 estimated population [US Census Bureau 2006]. A new (or Final) VNFRM was calculated by adding the GCP values calculated to the original VNFRM reported in the April 7, 2006 Enercon report for IP2 and IP3.

Table 4
VNFRM Values
IP2 and IP3 Economic Regions
GCP
(in
billions)
2004
estimated
population**
GCP /
person
Original
VNFRM*
Final
VNFRM

State	County	GCP (in billions)	2004 estimated population**	GCP / person	Original VNFRM*	Final VNFRM
Connecticut	Fairfield	49.8	901,819	55,222	232,659	287,881
Connecticut	Litchfield	7.1	189,258	37,494	148,522	186,016
Connecticut	New Haven	40.8	844,342	48,322	144,105	192,427
New Jersey	Bergen	50.8	901,745	56,323	205,863	262,186
New Jersey	Essex	39.8	795,015	50,049	147,351	197,400
New York	Sullivan	2.6	75,908	34,515	104,859	139,374
New Jersey	Morris	31.3	487,437	64,272	213,389	277,661
New Jersey	Passaic	19.9	498,939	39,984	121,880	161,864
New Jersey	Sussex	4.5	152,117	29,544	136,197	165,741
New Jersey	Union	25.9	530,846	48,848	160,860	209,708
New York	Dutchess	11.9	293,322	40,417	129,000	169,417
New York	Kings	47.4	2,497,859	18,987	104,714	123,701
New York	Nassau	63.1	1,337,693	47,177	192,755	239,932
New York	Orange	12.9	369,511	34,897	113,976	148,873
New York	Putnam	2.5	100,378	25,348	154,926	180,274
New York	Rockland	11.8	293,049	40,254	163,105	203,359
New York	Suffolk	63.2	1,474,519	42,856	149,615	192,471
New York	Ulster	6.3	181,824	34,649	104,090	138,739
New York	Westchester	43.4	941,380	46,111	217,278	263,389
New York	Queens	334.6	5,809,511	57,602	169,126	226,728

* VNFRM reported in Enercon April 7, 2006 report.

** [US Census Bureau 2006]

The original MACCS2 VNFRM was based on the non-farm fixed reproducible tangible wealth - a measure of the durable goods (things that people own). These goods may be a house, a car or a washing machine. The GCP/person values in Table 4 accounts for the total value of goods and services produced in an area in a given year (2004 for our example). This is essentially all the items that were manufactured or produced in an area in 2004, plus "services" that produce economic activity in that year. The Final VNFRM results in Table 4 are therefore a measure of the areas non-farm wealth (stuff they own) as well as a measure of their economic output.

MACCS2 input requires a regional average value of non-farm wealth (VALWNF). This is VNFRM weighted by the area each county has within the 50-mile radius of Indian Point (Table 1.1 from the April 7, 2006 Enercon SAMA report). The value in Enercon's April 7, 2006 Report without losses based on the GCP (i.e., without losses due to tourism and business) was \$163,631/person. A new average value of non-farm wealth (VALWNF) within a 50-mile radius of Indian Point was also calculated using the new VNFRM values. The new VALWNF was calculated to be \$196,967/person.

VALWNF was also calculated using the new VNFRM values (inclusive of non-farm wealth and GCP – which includes tourism and business production) using the 2004 estimates of population of each county rather than the weighted area of the county within the 50-mile radius. The VALWNF calculated weighted by population of the county is \$208,838.49/person.

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