

## RPV Building & OSF Plant Models

Model #	Model Name	Model #	Model Name
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### Standard Building Models (35)

E1	Housing - Small	E19	Parking Structure - Below Ground
E2	Housing - Large	E20	Swimming Pool
E3	Auditorium/Meeting	E21	Post Office/Mail Handling
E4	Cafeteria/Dining	E22	Recreation Center/Gym
E5	Classroom-Small	E23	Retail Store
E6	Classroom-Medium	E24	Security/Badging
E7	Fire Station	E25	Warehouse/Storage (pre-engineered)
E8	Garage, Repair	E26	Bank/Credit Union
E9	Hangar	E27	Visitor Center
E10	Indoor Firing Range	E28	Office 1-story
E11	Office/Lab	E29	Warehouse, Mini
E12	Laundry	E31	College, Dormitory, 2–3 Story
E13	Library	E33	Fraternity/Sorority House
E14	Medical Facility/Clinic	E34	Apartment 1–3 Story
E15	Office-Small	E35	Apartment 4–7 Story
E16	Office-Medium	E37	Hotel 4–7 Story
E17	Office-Large	E39	Telephone Exchange
E18	Parking Structure - Above Ground		

### Custom Building Models (30)

N1	Bunkers/Magazines	N16	Process Bldg w/Pool
N2	Communication Center/Tele	N17	Process Bldg-Small
N3	Computer Center	N18	Process Bldg-Large
N4	Day Care Center	N19	Records Storage/Vault
N5	Explosives Handling	N21	Labs-Hard Eng (50/50)
N6	Hardened Storage	N22	Labs-Bio/Environmental (50/50)
N7	High-Bay Facility	N23	Labs-Chemistry (50/50)
N8	Labs-Hard Eng (80/20)	N24	Labs-Physics/Comp (50/50)
N9	Labs-Bio/Environmental (80/20)	N25	Labs-Test/Blast (50/50)
N10	Labs-Chemistry (80/20)	N30	Office with Atrium
N11	Labs-Physics/Comp (80/20)	N31	High Radiation Examination Lab
N12	Labs-Test/Blast (80/20)	N32	Multi-Purpose Facility - large
N13	Machine Shop	N33	Trailer, Real Property
N14	Maintenance Shops	N34	Accelerator - Ring
N15	Paint Shop	N35	Pump Station

### **Laboratory Space Key (Lab %/Office %)**

### Unique Building Models (4)

N36	SNM Component Staging Facility	N38	High Explosive Subassembly Facility
N37	Assembly Cell	N39	HE Machining Facility

## (cont.)– RPV Building & OSF Plant Models

Model #	Model Name	Model #	Model Name
<b><u>Custom Other Structures &amp; Facilities (OSF) Plant Models</u></b>			
N40	Chilled Water Plant- 9,000T Centrifugal	N44	Steam Plant (Gas)
N41	Chilled Water Plant- 9,960T Absorption	N45	Steam Plant (Oil)
N42	Base Bldg. Steam Power Plant	N46	Base Treatment Plant Bldg.
N43	Steam Plant (Coal)		

## Model Descriptions

Model No.	Model Name	Model Description
E1	<b>Housing, Small</b>	<p>This model should be applied to small residential uses such as a house or small apartment. The model is based on a small 3-story apartment building with 8,000 square feet of floor area. The structure is light wood frame, with vinyl siding exterior, asphalt shingle roof, and packaged HVAC units.</p> <p style="margin-left: 40px;">Perimeter (LF):        213                      Location:                National  Avg. Floor Area (SF):   2,667                      Wage Rate:             Union  No. of Stories:            3                                Story Height (LF)    10</p>
E2	<b>Housing, Large</b>	<p>This model should be applied to large residential uses such as large apartment buildings and dormitories. The model is based on a large 6-story apartment building with 45,000 square feet of floor area. The structure is light steel frame, with brick veneer exterior, built-up membrane roof, and packaged HVAC units.</p> <p style="margin-left: 40px;">Perimeter (LF):        400                      Location:                National  Avg. Floor Area (SF):   7,500                      Wage Rate:             Union  No. of Stories:            6                                Story Height (LF)    10</p>
E3	<b>Auditorium</b>	<p>This model should be applied to uses such as meeting facilities and auditoriums. The model is based on a 1-story building with 24,000 square feet of floor area. The structure is light steel frame, with brick veneer and CMU backup exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="margin-left: 40px;">Perimeter (LF):        640                      Location:                National  Avg. Floor Area (SF):   24,000                      Wage Rate:             Union  No. of Stories:            1                                Story Height (LF)    24</p>
E4	<b>Cafeteria</b>	<p>This model should be applied to uses such as cafeteria and dining facilities. The model is based on a 1-story building with 8,000 square feet of floor area. The structure is light steel frame, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="margin-left: 40px;">Perimeter (LF):        368                      Location:                National  Avg. Floor Area (SF):   8,000                      Wage Rate:             Union  No. of Stories:            1                                Story Height (LF)    12</p>
E5	<b>Classroom - Small</b>	<p>This model should be applied to uses such as small size classroom and training facilities. The model is based on a 1-story building with 45,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="margin-left: 40px;">Perimeter (LF):        922                      Location:                National  Avg. Floor Area (SF):   45,000                      Wage Rate:             Union  No. of Stories:            1                                Story Height (LF)    12</p>
E6	<b>Classroom - Medium</b>	<p>This model should be applied to uses such as medium size classroom and training facilities. The model is based on a 2-story building with 110,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="margin-left: 40px;">Perimeter (LF):        1,890                      Location:                National  Avg. Floor Area (SF):   55,000                      Wage Rate:             Union  No. of Stories:            2                                Story Height (LF)    12</p>

# Model Descriptions

Model No.	Model Name	Model Description												
E7	<b>Fire Station</b>	<p>This model should be applied to all fire station facilities. The model is based on a 1-story building with 8,000 square feet of floor area. The structure is steel frame, with decorative block exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">386</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>8,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>14</td> </tr> </table>	Perimeter (LF):	386	Location:	National	Avg. Floor Area (SF):	8,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	14
Perimeter (LF):	386	Location:	National											
Avg. Floor Area (SF):	8,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	14											
E8	<b>Garage, Repair</b>	<p>This model should be applied to vehicle repair type uses and facilities. The model is based on a 1-story building with 10,000 square feet of floor area. The structure is masonry bearing wall with steel joist, with painted concrete block exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">500</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>10,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>14</td> </tr> </table>	Perimeter (LF):	500	Location:	National	Avg. Floor Area (SF):	10,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	14
Perimeter (LF):	500	Location:	National											
Avg. Floor Area (SF):	10,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	14											
E9	<b>Hangar</b>	<p>This model should be applied to hanger type uses and large clear-span open area facilities. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is steel frame, with galvanized steel siding exterior, single-ply membrane roof, and unit heaters.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">580</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>24</td> </tr> </table>	Perimeter (LF):	580	Location:	National	Avg. Floor Area (SF):	20,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	24
Perimeter (LF):	580	Location:	National											
Avg. Floor Area (SF):	20,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	24											
E10	<b>Indoor Firing Range</b>	<p>This model should be applied to indoor firing ranges with 4-6 firing stations. The model is based on a 1-story firing range with 4-6 firing stations 14,000 square feet of floor area. The structure is masonry bearing wall with steel joist, with painted concrete block exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">491</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>14,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>14</td> </tr> </table>	Perimeter (LF):	491	Location:	National	Avg. Floor Area (SF):	14,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	14
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Avg. Floor Area (SF):	14,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	14											
E11	<b>Office/Lab</b>	<p>This model should be applied to all simple light use combination laboratory/office uses such as a medical diagnostic lab. The model is based on a 1-story building with 45,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">900</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>45,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>12</td> </tr> </table>	Perimeter (LF):	900	Location:	National	Avg. Floor Area (SF):	45,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	12
Perimeter (LF):	900	Location:	National											
Avg. Floor Area (SF):	45,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	12											
E12	<b>Laundry</b>	<p>This model should be applied to laundry type uses and facilities. The model is based on a 1-story building with 15,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 20%;">490</td> <td style="width: 30%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>15,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>12</td> </tr> </table>	Perimeter (LF):	490	Location:	National	Avg. Floor Area (SF):	15,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	12
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Avg. Floor Area (SF):	15,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	12											

## Model Descriptions

Model No.	Model Name	Model Description
E13	<b>Library</b>	<p>This model should be applied to all library facilities. The model is based on a 2-story building with 22,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: center;">           Perimeter (LF):      435                      Location:              National            Avg. Floor Area (SF):    11,000                      Wage Rate:              Union            No. of Stories:              2                              Story Height (LF)    14         </p>
E14	<b>Medical Facility/Clinic</b>	<p>This model should be applied to all medical clinic and diagnostic type facilities and uses. The model is based on a 1-story building with 7,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: center;">           Perimeter (LF):              380                      Location:              National            Avg. Floor Area (SF):       7,000                      Wage Rate:              Union            No. of Stories:              1                              Story Height (LF)    10         </p>
E15	<b>Office - Small</b>	<p>This model should be applied to small office facilities less than 80,000SF. The model is based on a 3-story building with 35,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: center;">           Perimeter (LF):              440                      Location:              National            Avg. Floor Area (SF):       11,667                      Wage Rate:              Union            No. of Stories:              3                              Story Height (LF)    12         </p>
E16	<b>Office - Medium</b>	<p>This model should be applied to medium size office facilities between 80,000 and 150,000SF. The model is based on a 3-story building with 80,000 square feet of floor area. The structure is concrete frame, with glass curtainwall exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: center;">           Perimeter (LF):              670                      Location:              National            Avg. Floor Area (SF):       26,667                      Wage Rate:              Union            No. of Stories:              3                              Story Height (LF)    12         </p>
E17	<b>Office - Large</b>	<p>This model should be applied to large size office facilities between 150,000 and 250,000SF. The model is based on a 8-story building with 150,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: center;">           Perimeter (LF):              520                      Location:              National            Avg. Floor Area (SF):       18,750                      Wage Rate:              Union            No. of Stories:              8                              Story Height (LF)    12         </p>
E18	<b>Parking Structure - Above Ground</b>	<p>This model should be applied to above ground parking structures and decks. The model is based on a 5-story building with 115,000 square feet of floor area. The structure is concrete frame, with precast concrete exterior, no roof, and no mechanical HVAC systems.</p> <p style="text-align: center;">           Perimeter (LF):              638                      Location:              National            Avg. Floor Area (SF):       23,000                      Wage Rate:              Union            No. of Stories:              5                              Story Height (LF)    10         </p>

# Generic Model Descriptions

Model No.	Model Name	Model Description
E19	<b>Parking Structure - Below Ground</b>	<p>This model should be applied to below ground parking structures and decks. The model is based on a 2-story building with 100,000 square feet of floor area. The structure is concrete frame, with concrete foundation walls, no roof, and no mechanical HVAC systems.</p> <p style="text-align: right;">           Perimeter (LF): 900                      Location: National            Avg. Floor Area (SF): 50,000              Wage Rate: Union            No. of Stories: 2                      Story Height (LF) 10         </p>
E20	<b>Swimming Pool</b>	<p>This model should be applied to enclosed swimming pool facilities. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">           Perimeter (LF): 600                      Location: National            Avg. Floor Area (SF): 20,000              Wage Rate: Union            No. of Stories: 1                      Story Height (LF) 24         </p>
E21	<b>Post Office/Mail Handling</b>	<p>This model should be applied to all post office and mail facilities. The model is based on a 1-story building with 13,000 square feet of floor area. The structure is steel frame, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">           Perimeter (LF): 468                      Location: National            Avg. Floor Area (SF): 13,000              Wage Rate: Union            No. of Stories: 1                      Story Height (LF) 14         </p>
E22	<b>Recreation Center/Gym</b>	<p>This model should be applied to all recreational and gymnasium facilities. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is steel frame, with painted concrete block exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">           Perimeter (LF): 600                      Location: National            Avg. Floor Area (SF): 20,000              Wage Rate: Union            No. of Stories: 1                      Story Height (LF) 25         </p>
E23	<b>Retail Store</b>	<p>This model should be applied to all retail stores and product sales related facilities. The model is based on a 1-story building with 8,000 square feet of floor area. The structure is masonry bearing wall with steel joist, with decorative concrete block exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">           Perimeter (LF): 360                      Location: National            Avg. Floor Area (SF): 8,000              Wage Rate: Union            No. of Stories: 1                      Story Height (LF) 14         </p>
E24	<b>Security/Badging</b>	<p>This model should be applied to all security, badging, and site entry processing centers and facilities. The model is based on a 2-story building with 15,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">           Perimeter (LF): 354                      Location: National            Avg. Floor Area (SF): 7,500              Wage Rate: Union            No. of Stories: 2                      Story Height (LF) 12         </p>

# Generic Model Descriptions

Model No.	Model Name	Model Description												
E25	<b>Warehouse/Storage (pre-engineered)</b>	<p>This model should be applied to all pre-engineered type structures used for storage and support facilities. The model is based on a 1-story building with 40,000 square feet of floor area. The structure is steel frame, with galvanized steel siding exterior, metal roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">833</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>40,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>24</td> </tr> </table>	Perimeter (LF):	833	Location:	National	Avg. Floor Area (SF):	40,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	24
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Avg. Floor Area (SF):	40,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	24											
E26	<b>Bank/Credit Union</b>	<p>This model should be applied to all banking and credit union type facilities. The model is based on a 1-story building with 6,200 square feet of floor area. The structure is a steel frame building with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">317</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>6,200</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>14</td> </tr> </table>	Perimeter (LF):	317	Location:	National	Avg. Floor Area (SF):	6,200	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	14
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Avg. Floor Area (SF):	6,200	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	14											
E27	<b>Visitor Center</b>	<p>This model should be applied to all visitor centers and small museum type facilities. The model is based on a 1-story building with 24,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">680</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>24,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>12</td> </tr> </table>	Perimeter (LF):	680	Location:	National	Avg. Floor Area (SF):	24,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	12
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Avg. Floor Area (SF):	24,000	Wage Rate:	Union											
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E28	<b>Office 1 - Story</b>	<p>This model should be applied to 1-story office facilities. The model is based on a 1-story building with 7,000 square feet of floor area. The structure is brick on block with a steel roof deck and single-ply membrane roof.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">360</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>7,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>12</td> </tr> </table>	Perimeter (LF):	360	Location:	National	Avg. Floor Area (SF):	7,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	12
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No. of Stories:	1	Story Height (LF)	12											
E29	<b>Warehouse, Mini</b>	<p>This model is a 1-story storage and support building with a 12' story height. The model is based on a 20,000 square feet of floor area. The model is concrete block steel frame. Four exterior wall types and structural system options are available for customization. The model square foot matrix runs from 2,000–100,000 square feet.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">900</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>12</td> </tr> </table>	Perimeter (LF):	900	Location:	National	Avg. Floor Area (SF):	20,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	12
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Avg. Floor Area (SF):	20,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	12											

# Generic Model Descriptions

Model No.	Model Name	Model Description
E31	<b>College, Dormitory, 2-3 Story</b>	<p>This model should be applied to residential use as dormitories. The model is based on a 3-story building with 25,000 square feet of floor area and 12' story height. The structure is face brick with concrete block backup with a rigid concrete frame and roof-top HVAC units and central air system.</p> <p style="text-align: center;">Perimeter (LF):      400                      Location:              National  Avg. Floor Area (SF):    8,333                      Wage Rate:            Union  No. of Stories:            3                              Story Height (LF)    12</p>
E33	<b>Fraternity/Sorority House</b>	<p>This model should be applied to residential use as fraternity or sorority houses. The model is based on a 2-story building with 10,000 square feet of floor area and 10' story height. The structure is a wood frame with cedar beveled siding.</p> <p style="text-align: center;">Perimeter (LF):      300                      Location:              National  Avg. Floor Area (SF):    5,000                      Wage Rate:            Union  No. of Stories:            2                              Story Height (LF)    10</p>
E34	<b>Apartment 1-3 Story</b>	<p>This model should be applied to residential use as small apartment building. The model is based on a 3-story building with 22,500 square feet of floor area and 10' story height. The structure is face brick with concrete block back-up with steel joists and chilled water, air cooled condenser system.</p> <p style="text-align: center;">Perimeter (LF):      400                      Location:              National  Avg. Floor Area (SF):    7,500                      Wage Rate:            Union  No. of Stories:            3                              Story Height (LF):    10</p>
E35	<b>Apartment 4-7 Story</b>	<p>This model should be applied to residential use as a medium apartment building. The model is based on a 6-story building with 60,000 square feet of floor area and 10'-4" story height. The structure is face brick with concrete block back-up with steel joists and chilled water, air cooled condenser system.</p> <p style="text-align: center;">Perimeter (LF):      500                      Location:              National  Avg. Floor Area (SF):    10,000                      Wage Rate:            Union  No. of Stories:            6                              Story Height (LF)    10 1/3</p>
E37	<b>Hotel 4-7 Story</b>	<p>This model should be applied for use as a small hotel or similar facility. The model is based on a 6-story building with 135,000 square feet of floor area and 10' story height. The structure is face brick with concrete block back-up and a steel frame and oil fired hot water boiler, wall fin radiation and chilled water fan coiled units.</p> <p style="text-align: center;">Perimeter (LF):      722                      Location:              National  Avg. Floor Area (SF):    22,500                      Wage Rate:            Union  No. of Stories:            6                              Story Height (LF)    10</p>
E39	<b>Telephone Exchange</b>	<p>This model should be applied to all telephone exchange facilities and related uses. The model is based on a 1-story building with 5,000 square feet of floor area and a 12' story height. The structure is a face brick with concrete block back-up wall with steel joists and a single zone unit for gas heating and electric cooling.</p> <p style="text-align: center;">Perimeter (LF):      286                      Location:              National  Avg. Floor Area (SF):    5,000                      Wage Rate:            Union  No. of Stories:            1                              Story Height (LF):    12</p>

## DOE Custom Model Summaries

Model No.	Model Name	Model Description												
N1	<b>Bunkers Magazines</b>	<p>This model should be applied to all bunkers and magazine storage facilities. The model is based on a 1-story building with 1,000 square feet of floor area. The structure is cast-in-place concrete, with cast-in-place concrete exterior, special dirt berm roof system, and no mechanical system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">140</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>1000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF)</td> <td>14</td> </tr> </table>	Perimeter (LF):	140	Location:	National	Avg. Floor Area (SF):	1000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF)	14
Perimeter (LF):	140	Location:	National											
Avg. Floor Area (SF):	1000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF)	14											
N2	<b>Communications Center/Telephone</b>	<p>This model should be applied to all communication centers, telephone centers and switchgear facilities, and related uses. The model is based on a 3-story building with 25,000 square feet of floor area. The structure is masonry bearing wall with steel joists, with brick veneer and CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">440</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>8,333</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF):</td> <td>12</td> </tr> </table>	Perimeter (LF):	440	Location:	National	Avg. Floor Area (SF):	8,333	Wage Rate:	Union	No. of Stories:	3	Story Height (LF):	12
Perimeter (LF):	440	Location:	National											
Avg. Floor Area (SF):	8,333	Wage Rate:	Union											
No. of Stories:	3	Story Height (LF):	12											
N3	<b>Computer Center</b>	<p>This model should be applied to all computer processing centers and related facilities. The model is based on a 1-story building with 100,000 square feet of floor area. The structure is precast concrete panels, with tilt-up concrete exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">1400</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>100000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	1400	Location:	National	Avg. Floor Area (SF):	100000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	1400	Location:	National											
Avg. Floor Area (SF):	100000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N4	<b>Day Care Center</b>	<p>This model should be applied to all day care centers and related facilities. The model is based on a 1-story building with 10,000 square feet of floor area. The structure is wood stud with brick veneer, wood trusses, asphalt shingle roof, forced hot air/fin tube radiation heat.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">440</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>10,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>12</td> </tr> </table>	Perimeter (LF):	440	Location:	National	Avg. Floor Area (SF):	10,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	12
Perimeter (LF):	440	Location:	National											
Avg. Floor Area (SF):	10,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	12											
N5	<b>Explosives Handlings</b>	<p>This model should be applied to all explosive handling type facilities with blowout design features. The model is based on a 1-story building with 5,000 square feet of floor area. The structure is cast-in-place concrete, with cast-in-place concrete exterior, metal blowout roof, and unit heaters and packaged AC units.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">300</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>5,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	300	Location:	National	Avg. Floor Area (SF):	5,000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	300	Location:	National											
Avg. Floor Area (SF):	5,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N6	<b>Hardened Storage</b>	<p>This model should be applied to all reinforced and hardened storage facilities. This should be used for all storage facilities that are not pre-engineered. The model is based on a 1-story building with 25,000 square feet of floor area. The structure is cast-in-place concrete, with precast concrete exterior, built-up membrane roof, and unit heaters and packaged AC units.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">650</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>25000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>19.7</td> </tr> </table>	Perimeter (LF):	650	Location:	National	Avg. Floor Area (SF):	25000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	19.7
Perimeter (LF):	650	Location:	National											
Avg. Floor Area (SF):	25000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	19.7											

## DOE Custom Model Summaries

Model No.	Model Name	Model Description
N7	<b>High-Bay Facility</b>	<p>This model should be applied to all facilities with clear span high ceiling work space with crane. The model is based on a 1-story building with 75,000 square feet of floor area. The structure is steel frame, with metal siding exterior, metal roof, and unit heaters and packaged AC units.</p> <p style="text-align: right;">Perimeter (LF): 1150                      Location: National  Avg. Floor Area (SF): 75000                      Wage Rate: Union  No. of Stories: 1                      Story Height (LF): 14</p>
N8	<b>Laboratory-Hard Engineered (80/20)</b>	<p>This model should be applied to laboratories used for construction and testing of equipment and is based on 80% lab space and 20% office. The model is based on a 2-story building with 100,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">Perimeter (LF): 900                      Location: National  Avg. Floor Area (SF): 50,000                      Wage Rate: Union  No. of Stories: 2                      Story Height (LF): 15</p>
N9	<b>Laboratory-Biology/Environmental (80/20)</b>	<p>This model should be applied to laboratories used for biology and environmental research and is based on 80% lab space and 20% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">Perimeter (LF): 600                      Location: National  Avg. Floor Area (SF): 20000                      Wage Rate: Union  No. of Stories: 3                      Story Height (LF): 14</p>
N10	<b>Laboratory-Chemistry (80/20)</b>	<p>This model should be applied to laboratories used for chemistry research and is based on 80% lab space and 20% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">Perimeter (LF): 600                      Location: National  Avg. Floor Area (SF): 20,000                      Wage Rate: Union  No. of Stories: 3                      Story Height (LF): 14</p>
N11	<b>Laboratory-Physics/Computer (80/20)</b>	<p>This model should be applied to laboratories used for physics and computer research and is based on 80% lab space and 20% office. The model is based on a 4-story building with 80,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">Perimeter (LF): 600                      Location: National  Avg. Floor Area (SF): 20,000                      Wage Rate: Union  No. of Stories: 4                      Story Height (LF): 14</p>
N12	<b>Laboratory-Test/Blast (80/20)</b>	<p>This model should be applied to laboratories used for heavy testing and explosive blast testing research and is based on 80% lab space and 20% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <p style="text-align: right;">Perimeter (LF): 600                      Location: National  Avg. Floor Area (SF): 20000                      Wage Rate: Union  No. of Stories: 3                      Story Height (LF): 17.33</p>

## DOE Custom Model Summaries

Model No.	Model Name	Model Description												
N13	<b>Machine Shop</b>	<p>This model should be applied to all machine shop and support type facilities with overhead crane. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is steel frame, with metal siding exterior, metal roof, and unit heaters and packaged AC units.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N14	<b>Maintenance Shops</b>	<p>This model should be applied to all maintenance, trade, and support type facilities. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is steel frame, with metal siding exterior, metal roof, and unit heaters and packaged AC units.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N15	<b>Paint Shop</b>	<p>This model should be applied to all paint shop and support type facilities with paint booths. The model is based on a 1-story building with 20,000 square feet of floor area. The structure is steel frame, with metal siding exterior, metal roof, and unit heaters and packaged AC units.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N16	<b>Process Bldg. with Pool</b>	<p>This model should be applied to all process facilities with cooling ponds for roof storage. The model is based on a 1-story building with 125,000 square feet of floor area. The structure is cast-in-place concrete, with brick veneer with CMU backup exterior, built-up membrane roof, and a boiler/chiller mechanical system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">1650</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>125000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	1650	Location:	National	Avg. Floor Area (SF):	125000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	1650	Location:	National											
Avg. Floor Area (SF):	125000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N17	<b>Process Bldg. - Small</b>	<p>This model should be applied to all manufacturing and factory type facilities in the size range less than 250,000SF. The model is based on a 1-story building with 250,000 square feet of floor area. The structure is tilt-up concrete, with tilt-up concrete exterior, built-up membrane roof, and a boiler/chiller mechanical system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">2900</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>250000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	2900	Location:	National	Avg. Floor Area (SF):	250000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	2900	Location:	National											
Avg. Floor Area (SF):	250000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											
N18	<b>Process Bldg. - Large</b>	<p>This model should be applied to all manufacturing and factory type facilities in the size range of 250,000–750,000SF. The model is based on a 1-story building with 750,000 square feet of floor area. The structure is tilt-up concrete, with tilt-up concrete exterior, built-up membrane roof, and a boiler/chiller mechanical system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">4550</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>750000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	4550	Location:	National	Avg. Floor Area (SF):	750000	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	14
Perimeter (LF):	4550	Location:	National											
Avg. Floor Area (SF):	750000	Wage Rate:	Union											
No. of Stories:	1	Story Height (LF):	14											

## DOE Custom Model Summaries

Model No.	Model Name	Model Description												
N19	<b>Records Storage/Vault</b>	<p>This model should be applied to all records storage type facilities with climate controlled space. The model is based on a 2-story building with 150,000 square feet of floor area. The structure is cast-in-place concrete, with brick veneer with CMU backup exterior, single-ply membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">1,150</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>75,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>2</td> <td>Story Height (LF):</td> <td>20</td> </tr> </table>	Perimeter (LF):	1,150	Location:	National	Avg. Floor Area (SF):	75,000	Wage Rate:	Union	No. of Stories:	2	Story Height (LF):	20
Perimeter (LF):	1,150	Location:	National											
Avg. Floor Area (SF):	75,000	Wage Rate:	Union											
No. of Stories:	2	Story Height (LF):	20											
N21	<b>Laboratory-Hard Engineered (50/50)</b>	<p>This model should be applied to laboratories used for construction and testing of equipment and is based on 50% lab space and 50% office. The model is based on a 3-story building with 100,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">900</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>33,333</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF):</td> <td>12</td> </tr> </table>	Perimeter (LF):	900	Location:	National	Avg. Floor Area (SF):	33,333	Wage Rate:	Union	No. of Stories:	3	Story Height (LF):	12
Perimeter (LF):	900	Location:	National											
Avg. Floor Area (SF):	33,333	Wage Rate:	Union											
No. of Stories:	3	Story Height (LF):	12											
N22	<b>Laboratory-Biology/Environmental (50/50)</b>	<p>This model should be applied to laboratories used for biology and environmental research and is based on 50% lab space and 50% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	3	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	3	Story Height (LF):	14											
N23	<b>Laboratory-Chemistry (50/50)</b>	<p>This model should be applied to laboratories used for chemistry research and is based on 50% lab space and 50% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	3	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	3	Story Height (LF):	14											
N24	<b>Laboratory-Physics/Computer (50/50)</b>	<p>This model should be applied to laboratories used for physics and computer research and is based on 50% lab space and 50% office. The model is based on a 4-story building with 80,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>4</td> <td>Story Height (LF):</td> <td>14</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20,000	Wage Rate:	Union	No. of Stories:	4	Story Height (LF):	14
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20,000	Wage Rate:	Union											
No. of Stories:	4	Story Height (LF):	14											
N25	<b>Laboratory-Test/Blast (50/50)</b>	<p>This model should be applied to laboratories used for heavy testing and explosive blast testing research and is based on 50% lab space and 50% office. The model is based on a 3-story building with 60,000 square feet of floor area. The structure is steel frame, with precast concrete exterior, built-up membrane roof, and roof-top HVAC units and central air system.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">600</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>20000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF):</td> <td>17.33</td> </tr> </table>	Perimeter (LF):	600	Location:	National	Avg. Floor Area (SF):	20000	Wage Rate:	Union	No. of Stories:	3	Story Height (LF):	17.33
Perimeter (LF):	600	Location:	National											
Avg. Floor Area (SF):	20000	Wage Rate:	Union											
No. of Stories:	3	Story Height (LF):	17.33											

## DOE Custom Model Summaries

Model No.	Model Name	Model Description																												
N30	<b>Office with Atrium</b>	<p>The model should be applied to a large office building. The model is based on a 2-story office building with approximately 33,000 SF per floor totaling 66,000 SF. The structure included structural steel framing supported by concrete foundations. Exterior enclosure is metal wall panels and glazed curtain walls. Roofing is EPDM Membrane trimmed with aluminum flashing. The building is fire protected. The HVAC system is a combination of hot water boilers and roof top units. A 2000 amp service with power, lighting, fire alarm, public address and tel/data cables are provided. This model includes a cafeteria, computer center, auditorium support functions and an atrium. This model is based on a building at Thomas Jefferson National Accelerator Facility.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">1,530</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>33,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>2</td> <td>Story Height (LF):</td> <td>12</td> </tr> </table>	Perimeter (LF):	1,530	Location:	National	Avg. Floor Area (SF):	33,000	Wage Rate:	Union	No. of Stories:	2	Story Height (LF):	12																
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Avg. Floor Area (SF):	33,000	Wage Rate:	Union																											
No. of Stories:	2	Story Height (LF):	12																											
N31	<b>High Radiation Examination Laboratory</b>	<p>The estimate is for a 46,416 SF (excluding basement) High Radiation Examination Laboratory. The foundation is structural concrete. In addition there is a barium concrete core/cell areas for observing radioactive reactions. The exterior structure is a combination of steel framing and reinforced concrete block. Exterior veneer is a combination of brick, metal siding and painted finishes. Floor constructions consist of a basement slab on grade and structural concrete floors. The roof is built up bituminous. Toilet and locker rooms for employees are included. Fire protection system for the facility is included. Heating for the building is provided through a central heating plant with backup systems in the facility. Electrical power, control systems and backup systems have been provided. Interior construction is a combination of CMU and gypsum partitions. Reactor equipment has not been included.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">530</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Total Floor Area (SF):</td> <td>46,416</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td style="padding-left: 20px;">Basement</td> <td>15,472</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">1st Floor</td> <td>15,472</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">2nd Floor</td> <td>15,472</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">3rd Floor</td> <td>15,472</td> <td></td> <td></td> </tr> <tr> <td>No. of Stories:</td> <td>3</td> <td>Story Height (LF)</td> <td>12</td> </tr> </table>	Perimeter (LF):	530	Location:	National	Total Floor Area (SF):	46,416	Wage Rate:	Union	Basement	15,472			1st Floor	15,472			2nd Floor	15,472			3rd Floor	15,472			No. of Stories:	3	Story Height (LF)	12
Perimeter (LF):	530	Location:	National																											
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3rd Floor	15,472																													
No. of Stories:	3	Story Height (LF)	12																											
N32	<b>Multi-Purpose Facility - Large</b>	<p>This model applies to a large manufacturing facility including clean rooms, storage, manufacturing and office areas. The facility encloses approximately 1,700,000 SF; this includes a basement, a first level and a mezzanine level. The structure contains concrete foundations, concrete walls and concrete roof framing and deck. The exterior enclosure is a brick façade with service doors. The roof covering and flashings are bituminous. The HVAC system is a combination of hot water boilers and roof top units. A 2000 amp service with power, lighting, fire alarm, public address and tel/data cables are provided.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">4,960</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Total Floor Area (SF):</td> <td>1,700,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td style="padding-left: 20px;">Basement</td> <td>300,000</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">First Floor</td> <td>1,145,000</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Mezzanine</td> <td>255,000</td> <td></td> <td></td> </tr> <tr> <td>No. of Stories:</td> <td>3 partial</td> <td>Story Height (LF)</td> <td>152</td> </tr> </table>	Perimeter (LF):	4,960	Location:	National	Total Floor Area (SF):	1,700,000	Wage Rate:	Union	Basement	300,000			First Floor	1,145,000			Mezzanine	255,000			No. of Stories:	3 partial	Story Height (LF)	152				
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No. of Stories:	3 partial	Story Height (LF)	152																											
N33	<b>Trailer- Real Property</b>	<p>The Trailer estimate includes the purchase and installation of a 10' x 50' construction office trailer. Attached to the trailer are two 10' x 10' entry platforms and stairs. The trailer installation includes a perimeter skirt, power, grounding, fire alarm, and sprinklers.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Perimeter (LF):</td> <td style="width: 30%;">120</td> <td style="width: 20%;">Location:</td> <td style="width: 20%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>500</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (LF):</td> <td>10</td> </tr> </table>	Perimeter (LF):	120	Location:	National	Avg. Floor Area (SF):	500	Wage Rate:	Union	No. of Stories:	1	Story Height (LF):	10																
Perimeter (LF):	120	Location:	National																											
Avg. Floor Area (SF):	500	Wage Rate:	Union																											
No. of Stories:	1	Story Height (LF):	10																											

## DOE Custom Model Summaries

Model No.	Model Name	Model Description																
N34	<b>Accelerator - Ring (TJ Lab)</b>	<p>The estimate includes General Contractor work for providing site, concrete, waterproofing, mechanical and electrical work for a continuous electron beam accelerator tunnel and supporting stairways. The tunnel is essentially a continuous concrete box approximately 4300 LF long with interior dimensions of 14' wide by 10' high. Dimensions vary at access building and stairways. Elevated and slab on grades vary from 2'-0" to 4'-0" thick. Six access stair locations are also included.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">4,300</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Avg. Floor Area (SF):</td> <td>92,400</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1 with exception for 6 access stairs @ 2 stories</td> <td>Story Height (Ft):</td> <td>10</td> </tr> </table>	Perimeter (LF):	4,300	Location:	National	Avg. Floor Area (SF):	92,400	Wage Rate:	Union	No. of Stories:	1 with exception for 6 access stairs @ 2 stories	Story Height (Ft):	10				
Perimeter (LF):	4,300	Location:	National															
Avg. Floor Area (SF):	92,400	Wage Rate:	Union															
No. of Stories:	1 with exception for 6 access stairs @ 2 stories	Story Height (Ft):	10															
N35	<b>Pumping Station</b>	<p>This model should be applied to an 8.1 MGD pump station. The pump station intakes water from a reservoir and transfers to a municipal system. The model is based on a 2-story building with 3024 square feet of floor area. The first story is constructed of thickened concrete walls and slabs that support the intake and pump room. The second floor is enclosed in a prefabricated steel building. The second floor supports mechanical and electrical equipment, along with an office and support areas.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">220</td> <td style="width: 33%;">Location:</td> <td style="width: 33%;">National</td> </tr> <tr> <td>Total Floor Area (SF):</td> <td>3,024</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>2</td> <td>Story Height (LF)</td> <td>20</td> </tr> <tr> <td></td> <td></td> <td>Rating:</td> <td>5625 GPM</td> </tr> </table>	Perimeter (LF):	220	Location:	National	Total Floor Area (SF):	3,024	Wage Rate:	Union	No. of Stories:	2	Story Height (LF)	20			Rating:	5625 GPM
Perimeter (LF):	220	Location:	National															
Total Floor Area (SF):	3,024	Wage Rate:	Union															
No. of Stories:	2	Story Height (LF)	20															
		Rating:	5625 GPM															

## OSF Plant Model Descriptions

Model No.	Model Name	Model Description
N40	<b>Chilled Water Plant - 9,000T Centrifugal Chiller</b>	<p>Plants used to produce centralized chilled water for installation-wide industrial processes or personal comfort cooling. The design of this model is based on a 9,000 Ton centrifugal chiller plant made up of six 1500 Ton centrifugal chillers. The model is a 10,000 square foot 1-story building. The structure is steel frame, metal sandwiched exterior, with a metal roof.</p> <p style="margin-left: 40px;">Perimeter (LF):            450                    Location:                    National  Total Floor Area (SF):    10,000                    Wage Rate:                Union  No. of Stories:                1                              Story Height (Ft):        14</p>
N41	<b>Chilled Water Plant - 9,000T Centrifugal Chiller</b>	<p>Plants used to produce centralized chilled water for installation-wide industrial processes or personal comfort cooling. The design of this model is based on a 9,960 Ton steam absorption chiller plant made up of six 1660 Ton steam absorption chillers. The model is a 10,000 square foot 1-story building. The structure is steel frame, metal sandwiched exterior, with a metal roof.</p> <p style="margin-left: 40px;">Perimeter (LF):            450                    Location:                    National  Total Floor Area (SF):    10,000                    Wage Rate:                Union  No. of Stories:                1                              Story Height (Ft):        14</p>
N42	<b>Base Bldg. Steam Plant</b>	<p>This model is a base design/shell structure for either a gas or oil fired steam plant. The model is a 4-story, 75,000 steel-frame structure with metal siding. The basis of the shell is the N7 Height Bay facility. The user must add the appropriate number and size of the boilers to complete the design of the steam generating facility</p> <p style="margin-left: 40px;">Perimeter (LF):            700                    Location:                    National  Total Floor Area (SF):    74,050                    Wage Rate:                Union  No. of Stories:                4                              Story Height (Ft):        17.5</p>
N43	<b>Steam Plant (Coal)</b>	<p>Coal-fired boilers used to produce steam or high temperature water for installation-wide distribution for industrial or personal comfort purposes. The model is a 4-story, 75,000 steel-frame structure with metal siding. The basis of the shell is the N7 Height Bay facility. The model includes 250,000 Lb/Hr boilers, coal handling systems, chemical treatment systems and all necessary controls and instrumentation.</p> <p style="margin-left: 40px;">Perimeter (LF):            700                    Location:                    National  Total Floor Area (SF):    74,050                    Wage Rate:                Union  No. of Stories:                4                              Story Height (Ft):        17.5</p>
N44	<b>Steam Plant (Gas)</b>	<p>Gas-fired boilers used to produce steam or high temperature water for installation-wide distribution for industrial or personal comfort purposes. The model is a 4-story, 75,000 steel-frame structure with metal siding. The basis of the shell is the N7 Height Bay facility. The model includes 250,000 Lb/Hr boilers, gas piping systems, chemical treatment systems and all necessary controls and instrumentation.</p> <p style="margin-left: 40px;">Perimeter (LF):            700                    Location:                    National  Total Floor Area (SF):    74,050                    Wage Rate:                Union  No. of Stories:                4                              Story Height (Ft):        17.5</p>

## OSF Plant Model Descriptions

Model No.	Model Name	Model Description												
N45	<b>Steam Plant (Oil)</b>	<p>Oil-fired boilers used to produce steam or high temperature water for installation-wide distribution for industrial or personal comfort purposes. The model is a 4-story, 75,000 steel-frame structure with metal siding. The basis of the shell is the N7 Height Bay facility. The model includes 250,000 Lb/Hr boilers, oil storage tanks, chemical treatment systems and all necessary controls and instrumentation.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">700</td> <td style="width: 33%;">Location:</td> <td>National</td> </tr> <tr> <td>Total Floor Area (SF):</td> <td>74,050</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>4</td> <td>Story Height (Ft):</td> <td>17.5</td> </tr> </table>	Perimeter (LF):	700	Location:	National	Total Floor Area (SF):	74,050	Wage Rate:	Union	No. of Stories:	4	Story Height (Ft):	17.5
Perimeter (LF):	700	Location:	National											
Total Floor Area (SF):	74,050	Wage Rate:	Union											
No. of Stories:	4	Story Height (Ft):	17.5											
N46	<b>Base Treatment Plant Bldg.</b>	<p>This model is a generic design plant shell that can be used for primary, secondary and tertiary sewage treatment and for water treatment. The model must be modified to include the appropriate treatment equipment and building square footage, perimeter and story height. The model is a 1-story structure with metal siding.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Perimeter (LF):</td> <td style="width: 33%;">1,150</td> <td style="width: 33%;">Location:</td> <td>National</td> </tr> <tr> <td>Total Floor Area (SF):</td> <td>75,000</td> <td>Wage Rate:</td> <td>Union</td> </tr> <tr> <td>No. of Stories:</td> <td>1</td> <td>Story Height (Ft):</td> <td>14 ft.</td> </tr> </table>	Perimeter (LF):	1,150	Location:	National	Total Floor Area (SF):	75,000	Wage Rate:	Union	No. of Stories:	1	Story Height (Ft):	14 ft.
Perimeter (LF):	1,150	Location:	National											
Total Floor Area (SF):	75,000	Wage Rate:	Union											
No. of Stories:	1	Story Height (Ft):	14 ft.											

## Model Descriptions

Model No.	Model Name	Model Description
N36	<b>SNM Component Staging Facility</b>	<p>The SNM Component Staging Facility is a 47,987 GSF cast-in-place concrete building. The perimeter is 1,041 LF and the height varies from 27' to 11'. There is a partial first floor of 10,300 SF. The majority of the exterior wall is 24" thick but there is a small area where it is 40" thick. The interior partitions are a mix of CIP and drywall. The foundation is a 1'-3" (15") concrete mat foundation. There is a low entrance link building comprised of industrial type siding and metal roofing (there is also a PH with the same construction). The finishes are a combination of exposed structure and ACT ceilings with resinous flooring and acoustical wall panels. Heat is brought into the building by existing HP steam service. There are 11 AHU's, two packaged dehumidifiers, 11 FCU's and a 130 Ton reciprocating chiller. The building is fully sprinkled.</p> <p style="margin-left: 40px;">Perimeter (LF):            1,041                      Location:                National  Total Floor Area (SF):    47,987                    Wage Rate:             Union  No. of Stories:            N/A                        Story Height (LF)    N/A (VARIES)</p>
N37	<b>Assembly Cell</b>	<p>This facility comprises a central single story 27' wide corridor and storage "spine" constructed with 12" thick reinforced concrete retaining walls with counter forts and a steel roof deck with steel beam supports. Attached to this spine (two from the north and two from the south) are four single story, reinforced concrete circular assembly cells each with a cantenary roof beneath approximately 20' of fill. The cells have blast resistant entry doors. Each assembly cell contains the following reinforced concrete below grade support spaces: mechanical. room; tooling staging; SNM staging; corridor; inert parts staging; equipment airlock; personnel corridor. At each end of the spine is a prefabricated building with insulated metal siding approximately 58' long x 40' wide containing the main mechanical and electrical rooms and an entrance ramp also constructed from a prefabricated structure approximately 56' x 17'.</p> <p style="margin-left: 40px;">Perimeter (LF):            2,575                      Location:                National  Total Floor Area (SF):    36,604                    Wage Rate:             Union  No. of Stories:            1                            Story Height (LF)    N/A</p>
N38	<b>High Explosive Subassembly Facility</b>	<p>Single story complex comprising a central reinforced blast-proof concrete core containing 15 assembly bays and one vacuum chamber which are separated by a blast proof, sand filled containment area. The central core is buried under compacted earth fill with erosion control. This central core is ringed by a 16'- wide service corridor constructed from structural steel framing with a metal panel exterior closure and roofing system. The steel frame is specially reinforced at the entrance of each assembly bay to form a fragment shield. The entire structure is constructed off a mat foundation. The facility is entered by a pre-fabricated ramp building.</p> <p style="margin-left: 40px;">Perimeter (LF):            1,521                      Location:                National  Total Floor Area (SF):    90,222                    Wage Rate:             Union  No. of Stories:            1                            Story Height (LF)    16</p>
N39	<b>High Explosive Machining Facility</b>	<p>The HE machining facility is a 49,600 GSF single story facility. The building is divided into the HE machining facility (23,500 GSF) and the adjacent support area (26,100 GSF). The HE machining facility comprises eleven 600 SF lathe/milling rooms and one large equipment room. All the HE rooms are constructed of blast resistant concrete walls &amp; slabs. The rooms are separated from an HE corridor by blast resistant CIP concrete vestibules and blast resistant doors. Each lathe/milling room contains an exterior door protected with blast resistant exit mazes. The HE machining facility is constructed on a 48" thick mat slab. Support areas and HE corridor are on a 6" slab. The HE corridor has a precast slab and beams. Support spaces are constructed of a CIP concrete deck with rib joists and concrete columns supported on caissons. The roof is a flat EPDM roof and the exteriors are EIFS finish on reinforced CIP concrete walls. Each lathe/milling room contains a full height removable access panel. Interior partitions are CMU or GWB partitions in the support areas and are blast resistant CIP concrete in the HE facility. There is 6,557 GSF prefab ramp building with metal siding and roofing.</p> <p style="margin-left: 40px;">Perimeter (LF):            1,033                      Location:                National  Total Floor Area (SF):    49,600                    Wage Rate:             Union  No. of Stories:            1                            Story Height (LF)    42</p>