

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
1	Energy conservation criteria/ data are reflected on DD Form 1391				
	Passive Design				
2	Site Design				
	a. Orientation				
	b. Temperature Modification				
	c. Sun Control				
	d. Wind				
	e. Windbreaks				
3	Underground Construction				
4	Zoning (Functional vs. Energy Use Grouping)				
5	Form and Envelope				
	a. Surface Area-to-volume Ratio				
	b. U-Values IAW AEI, Chapter 11.				
	1. Foundation/Perimeter				
	2. Exterior Walls				
	3. Windows				
	a. Double Pane				
	b. Triple Pane				
	c. Material				
	d. Tinting				
	e. Coatings				
	f. Frame				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
10	Passive Cooling				
	a. Direct Cooling				
	b. Indirect Cooling				
	1. Night Sky Radiation Cooling				
	2. Evaporative Cooling				
	3. Roof Ponds				
	c. Isolated Cooling				
11	Daylighting				
	a. Site Related				
	1. Reflection from ground surfaces				
	2. Reflection from skyvault				
	3. Adjacent buildings and vegetation				
	4. Orientation				
	5. Controls				
	a. Overhangs				
	b. Louvers				
	b. Building Form				
	c. Glazing				
	1. Windows				
	2. Clerestories and skylights				
	3. Controls				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
	d. Interiors				
	1. Adjacency to light source				
	2. Interior Finishes				
	3. Controls				
12	Strip curtains and doors				
13	Ventilated attic space (if insulation below)				
14	Ventilated ceiling space				
	Energy/Fuel source analysis/selection				
15	Connection to existing central plants/building systems				
16	Natural gas				
17	Fuel oil				
18	Liquefied Petroleum Gas				
19	Geothermal/solar				
20	Refuse fuel				
21	Waste oils				
22	Soild Fuels				
23	Electric				
24	Private-sector financed energy contracts				
25	Cogeneration				
26	Other energy sources				
27	Use lowest life-cycle cost fuel available				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
	Life Cycle Cost Analysis (LCCA)				
28	Equipment				
29	System				
30	Energy Use Budget (EUB)				
31	Design Energy Use (DEU)				
32	Solar				
	HVAC				
33	Economy cycle				
34	Night and/or weekend temperature cut-back or cut-off				
35	Coil run-around cycle				
36	Minimum fresh air provided				
37	Air-to-air heat recovery				
38	Absorption refrigeration				
39	High-efficiency chillers				
40	Double-bundle condensers				
41	High-EER heatpumps				
42	Free cooling/economizer				
43	Thermal storage systems				
44	Cut-off of outdoor air during non-occupied times				
45	Centrally located supervisory control systems				
46	VAV/Modular systems				
47	High-efficiency cooling units				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
48	Desiccant dehumidification				
49	Evaporative cooling				
50	Use domestic water supply for cooling				
51	Time clocks				
52	Use of room thermostats with 5 degree dead band between heating and cooling settings				
53	Night and weekend cut-back of room temperature by 15 - 20 degrees F for non-occupied times				
54	Air-to-air heat recovery systems				
55	Use minimum fresh air quantities permitted				
56	Energy storage systems				
57	Turn off pumps and heat generators at outdoor temperature of 65 degrees F.				
58	Use condenser heat				
59	Use of stack heat reclaimers				
60	Use of equipment heat to heat exterior zones				
61	Use tampered-proof thermostats/sensors				
62	Occupancy sensor				
63	High-efficiency boilers/furnaces				
64	Waste heat boilers				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
65	High-efficiency heating equipment				
66	Heat from lighting systems				
67	Heat wheels				
68	Heat reclamation				
69	Heat pipe systems				
70	Total energy systems				
71	Use minimum fresh air quantities permitted				
72	Shut down ventilation system during non-occupied hours				
73	Demand Control Ventilation strategy				
74	Use separate make-up air supply for exhaust hoods to reduce outdoor air ventilation				
	Thermal insulation IAW CEGS 15250				
75	Equipment				
76	Systems				
77	Use of high-quality electric/electronic controls for HVAC system				
78	ECIP				
	Utility meters for each utility servicing the building				
79	Steam				
80	Electricity				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
81	Natural Gas				
82	Fuel Oil				
83	Water				
84	Automotive Fuel				
85	Aircraft Fuel				
	Plumbing Fixtures				
86	Lavatory faucets (2.5 GPM @ 80 psi)				
87	Lavatory replacement aerators (2.5 GPM @ 80 psi)				
88	Showerheads (2.5 GPM)				
89	Kitchen faucets (2.5 GPM @ 80 psi)				
90	Gravity tank-type toilets (1.6 gal/flush)				
91	Flushmeter tank toilets (1.6 gal/flush)				
92	Urinals (1 gal/flush)				
93	Electromechanical hydraulic toilets (1.6 gal/flush)				
94	Blowout toilets (3.5 gal/flush)				
95	Use ASHRAE Handbook for domestic design temperatures				
96	Low temperature chemical dish washers				
97	Water heaters meet ASHRAE/ANSI/CFR				
98	Use of gray water for irrigation				

ENERGY CONSERVATION COMPLIANCE CHECKLIST

	Item Description	Yes	No	N/A	Remarks
	HVAC/Refrigeration				
	Equipment motors/drives				
99	Electronic adjustable speed drive controls				
100	Variable-speed drives				
101	Variable-frequency drives				
102	High-efficiency motors				
	Electrical				
103	Electronic ballasts				
104	Dimmable lighting				
105	Advanced lighting controls				
106	Energy-efficient lamps				
107	High pressure sodium (HPS) for exterior lighting				
108	Day lighting/controls				
109	Peak-shaving generator/ dedicated electricity for building				
110	Electric power-shared saving				
111	Energy Monitory Control System (EMCS)				
112	High-efficiency electrical equipment/systems/controls				
113	High-efficiency motors				
114	Reduce transformer losses				
115	Peak load shaving				
116	Load demand controllers				

