Electrical check list for inspections of solar

Oct. 7, 2015

All residential solar systems must have a disconnecting means at owners house meter. (By order of Rutland Fire Chief)

1. - Building permit must be present and exposed to outside of building.

2. - Contractor represented must be a license Electrician when meeting for inspection

3. - Type of solar system installed ( micro inverters or inverter alone )

4. - Conduit type of wiring method.

5. - Type of roof mounting ( rails or other )

6. - Junction box for strings from panels. ( where is junction box install ) Solar deck?

7. - D C disconnect at readily accessible location either outside a building or inside nearest point of entry

   ( also see 691.31(E) )

8. - 690.15 Disconnect of PV equipment from all sources (required & grouped)

9. - 690.31(G) D C inside building (methods allowed)

10. -200.6(A)(6) Proper marking of grounded conductor.

11. - Bond all electrodes together. 250.50

12. -250.120(C)#6 or smaller EGC ( I require # 6 on roof)

13. - 250.64(F) GEC installation to electrodes

14. - 230.2(E) Identify each service with plaque and other labeling,

15. - 352.12(D)& table310.15(B) (3) (C)PVC use restricted to a maximum ambient of 122 degrees F ( PVC use not allowed on roof tops below 3 1/2 inches ) ( also see UL 651 )

16. - 690.12 Rapid shut down (10 seconds)

17. - 705.12(D) (2) 120% rule.

18. - How is system tied into service. Line side tap or breaker in service panel.