



Site Inspection Checklist

Project:

Location:

By:

Terry Proffer

Date:

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Item or Procedure	Confirmation/Comments
Personnel Certified for Fusion - Current fusion card, other	
IGSHPA Accreditation, Key Personnel - Current registration, (card, web site confirmation)	
State/Local Agency - Division of Water Resources - Current license for closed loop installation - Key Personnel	
HDPE Pipe - Brand and type, consistent with specifications	
Ground Loop Pipe - Verify intended use and warranty to specifications	
Cell Classification - Verify minimum cell classification to specifications	
Schedule - Verify DR as specified for project; circuit, header piping, etc.	
Circuit Length - Consistent with project specifications	
Circuit Tails - Vertical above grade, slinky return run, other, sufficient for headering without excess lengths to create flow imbalance, other issues	
Pipe Handling - Circuit and header piping is sealed - Debris contamination	
Hole Depth, Length - Consistent with specifications	
Grout - Consistent with specifications	
Grout Thermal Conductivity Performance - Manufacturer - Blend type & procedure - Verification of TC value	
Grout Placement Method - Consistent with specifications (horizontal or bored loops)	

Grout level after settling - Free bore from grade to top of grout - Top off hole with grout or cuttings	
Bore Hole Spacing - Consistent with specifications	
Pipe Joining Method - Socket - Butt - Sidewall - Electrofusion - Stab fittings	
Fusion Iron Temperature - Socket - Butt - Sidewall	
Manifold Fittings - Consistent with HDPE pipe specified	
Manifold Pipe - Consistent with HDPE pipe specified	
Manifold Configuration - Consistent with specification	
Manifold Reverse-Return - Consistent with specification	
Header Line Distance 1-Way to 1st bore or circuit, consistent with specification	
Header Stubline Distance - Between circuit tees, equivalent length for flow balance, consistent with specification	
Circuit Fluid Charging - Water only before adding antifreeze and/or inhibitors	
Header Penetrations, Envelope - Sleeving through wall or floor to mechanical room	
Header Pipe Spacing Internally - Sufficient for internal manifolding, service connections, transition to metallic or other piping	
Header Pair Diagnostic Ports - P/T port placement - P/T port depth / probe access to fluid stream	
Circuit Pressure Testing - Procedure, test pressure, to specifications	
Header Pair Pressure Testing - Procedure, test pressure, to specifications	

Local/State Agency Division of Water Resources - Registration of loopfield specifications with agency(ies), copy to mechanical engineer	
Borehole & Manifolding Survey - Consistent with specifications: - GPS or surveyed coordinates - As-built drawing - Tracer wire or other sensing marker (over bore holes, header piping, etc.)	
Flushing/Purging - Div. 23 or 15530-12, 13, 14 - Consistent with specifications	
Warranty Documentation - Consistent with specifications	
Warranty, HDPE Pipe - Consistent with specifications	
Warranty, Fittings & Valving - Consistent with specifications	
Warranty, GSHP Equipment - Consistent with specifications	
Warranty, Other Materials - Consistent with specifications	
Verification that all communications, suggestions, questions, etc., include mechanical/design team awareness and/or approval	
Other:	