Manual S, D & J Checklists

Building Department		
	Wrightsoft report (.pdf file)	
	Site Plan	
	Building Floor Plan	
	REScheck Report (if available)	
	Electrical/Mechanical Plans (if available)	
Manual S, D & J Reviews		
	Jobsite address is listed on the first page of the report	
	Designer contact information is listed on the report	
	The orientation described on the Site Plan is identical or within 45° to the orientation described on the report	
	The design of the residence on the report is identical to what is described on the set of Floor Plans	
	Infiltration method indicates: Average Other methods indicated must have supporting documentation to meet criteria	
	The square footage listed on the report is approximately the same as what is identified on the Site or Floor Plan	
	Value for Sensible Cooling is larger than the Cooling Load calculated form the Manual J	
	Value for Heating Output is larger than the Heating Load calculated from the Manual J	
	The Actual Air Flow should be a value approximately 400-450 cfm/ton; calculate to the cooling equipment to verify the requirement has been met	
	The Location should read the corresponding location of the residence or a location of similar climate according to the International Energy Conservation Code	
	Indoor Temperature: 70 Heating and 75 Cooling	
	Relative Humidity: 50% Heating and 50% Cooling	
	Construction descriptions on the report must be identical to what has been described either on the <i>RES</i> check Report or Floor Plan	
	The Required Total Capacity at 0.85 SHR value should be less than the size of the cooling condenser that is proposed to be installed o If the Required Total Capacity at 0.85 SHR value is within 0.2, suggest for the designer to upgrade ½ ton on their cooling equipment proposal	
	The ceiling heights on the report are identical to what is indicated on the Floor Plan	
	Internal Gains for Occupants: 230 x (# of bedrooms + 1)	
	Internal Gains for Appliances/other: the value should be approximately the same as the value of square footage of the residence o Internal Gains should be dispersed by appliance locations and the locations of occupants shall be	

dispersed by what rooms will impose internal gains at peak hours (4pm-6pm)

	 For multi-story homes, occupant loads should be dispersed to the areas of the home that are furthest away from the air handling equipment 	
	The location of the Air Handling Equipment is installed on the report in the same location that is described as on the Floor Plan	
	All duct runs have a termination point and register with sizing and calculated cfm listed o If the duct runs appear questionable, run length and obstacles, a balancing request can be made prior to final inspection	
	Return air grills are not in a prohibited location pertaining to code or within the minimum distance to gas appliances, masonry fireplaces, and exterior doors that lead to the garage o If Electrical/Mechanical Plans have been submitted and the Return Air Grill locations have been defined, then these locations must be identical to what is described on the report	
	Return air paths have been indicated on the report for all sleeping rooms	
	The value for External Static Pressure is between 0.60-0.90 in H2O	
	The Total Effective Length (TEL) is less than or approximately 400 feet	
	Velocities for Supply runs are less than 1,000 FPM on main and 600 on branch lines	
	Velocities for Return runs are less than 800 FPM on main and 600 on branch lines	
	Natural Draft or 80% furnaces are located outside of the living space of the residence	
Inspector Checklist		
	The approved copy of the report is available on the jobsite	
	The address on the report is correct corresponding to the jobsite location	
	The Heating and Cooling Equipment installed is identical to what is listed on the report	
	The orientation and floor design on the repot is identical to what has been constructed	
	Duct runs have been installed according to the design described on the report o If duct runs do not correspond to what has been designed on the report, a balancing report may be required to verify cfm will be met	
	The locations of Return Air Grills that were constructed are identical to the report	