**EXHIBIT NO. \_\_\_(MBM-6)
DOCKETS UE‑151871/UG-151872
PSE EQUIPMENT LEASING SERVICE
WITNESS:  MALCOLM B. MCCULLOCH**

**BEFORE THE**

**WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

|  |  |  |
| --- | --- | --- |
| **WASHINGTON UTILITIES AND****TRANSPORTATION COMMISSION,****Complainant,** **v.****PUGET SOUND ENERGY,****Respondent.** |  | **Dockets UE-151871** **UG-151872** |

**FIFTH EXHIBIT TO THE PREFILED DIRECT TESTIMONY OF**

**MALCOLM B. MCCULLOCH**

**ON BEHALF OF PUGET SOUND ENERGY**

**~~February 25, 2016~~REVISED April 25, 2016**

| **Cost Component** | **What should be included in flat rates?** |
| --- | --- |
|  | 1. Install fan switch or connect to t-stat
2. Hook up internal 24 v controls and t-stat
3. Fire off unit, check combustion and firing rate
	1. Check combustion of water heater if common venting used)
4. Set fan speed, check all controls, run through heating cycle
5. Check all safety operations
6. Clean site
7. Review T-stat settings with customer to optimize their goals/system performance
8. Discuss installation and operation with homeowner
 |

**Figure 2 – Residential Gas Furnace Installation Exclusions**

|  |  |
| --- | --- |
| **Cost Component** | **What should be excluded ~~included~~ in flat rates, or considered as supplemental?** |
|  | 1. Crawl space or attic installation
2. Relocation of furnace
3. Relocating gas line
4. Relocating venting over
5. Additional supply or return runs
6. Increasing duct size
7. Code upgrades

 o Adding combustion air o B vent o PVC/Condensate/ Condensate pump  |