

July 10, 1990

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SALT LAKE

MEMORANDUM

TO: Robert L. Morgan, State Engineer  
Lee Sim, Distribution Engineer

FROM: Gerald W. Stoker, Area Engineer *GWS*

SUBJECT: Measuring devices on the Santa Clara River System

We have reviewed the Utah Power and Lights memorandum and flow schematic on the Power Canal from the Santa Clara River. The measurements that they have taken correlate with our thoughts on "low flows" in the power canal and we can't find much argument with the calculations.

These measurements supports my theory that we need additional sites along the canal that can be spot checked by the water commissioner and others as the flow increases or decreases in the canal. It would be my suggestion that we order the installation of parshall flumes at the following sites:

1. At the Power Canal diversion from the Santa Clara River. This device can be used in conjunction with the U.S.G.S. gaging station near that same location (above Baker Reservoir).
2. In the Power Canal before it enters the Upper Sand Cove Reservoir. This will give us an idea of losses between the "HWY" parshall flume and the Upper Sand Cove Reservoir.
3. We will check on the measuring device used by the Veyo Irrigation Co. where they divert water from the Power Canal and may request a change at that site.
4. Other locations along the Santa Clara River system will also be reviewed but at this time most of the diversion and measuring sites are covered.

*NEED ANSWER*

Along with the measuring devices we must also have access to the UP & L flow charts or power production charts at each generating station. This will assist us in determining the losses in the pipeline and other reaches of the canal.