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**Committee D19 on Water**  
**Subcommittee D19.03 on Sampling Water and Water-Formed Deposits,**  
**Analysis of Water for Power Generation and Process Use, On-Line**  
**Water Analysis, and Surveillance of Water**

**Research Report D19-1160**

**Interlaboratory Study to Establish Precision Statements for ASTM**  
**D6071, Standard Test Method for Low Level Sodium in High Purity**  
**Water by Graphite Furnace Atomic Absorption Spectroscopy**

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## 1 INTRODUCTION

One important goal of RP2712-3 is to assure the validity of the measurements that are made on both continuous and grab samples taken from each of the six thermal plant systems to be studied. Those grab sample methods for which adequate performance information has not been available at the concentrations of interest to the project have been subjected to an interlaboratory validation program designed in accordance with ASTM D2777-85, "Standard Practice for Determination of the Precision and Bias of Applicable Methods of Committee D-19 on Water."

## 2 PARTICIPATING LABORATORIES

### 2.1 Description

Participants for the interlaboratory study were solicited from utility, vendor and consulting laboratories who were routinely using, or were qualified to use, one or more of the methods selected for the study. Samples were sent to twenty volunteer participants, some for all seven methods, others for only one or two. Un-anticipated laboratory work-load, personnel sickness or vacation conflicts, and instrument malfunctioning caused considerable attrition in the original list of volunteers to whom samples were sent. The following table lists those who submitted results for the indicated test methods.