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## Hydrologist 12

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### GS-1315-12

NOTE: THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

#### I. INTRODUCTION

This position provides hydrologic services involved in forecasting, data collection and analysis, and development and adaptation of water resource programs.

#### II. MAJOR DUTIES AND RESPONSIBILITIES

Performs a wide range of assignments of considerable difficulty and complexity in hydrology and water resources. May perform one or more of the following:

Determines hydrologic service requirements for a designated area and coordinates those requirements with appropriate officials. Evaluates sites and areas subject to floods and flash floods. Represents hydrologic and water resource programs at public and interagency meetings and helps to resolve hydrologic related issues.

Collects, analyzes, disseminates, and manages networks of basic water resource data such as information on reservoir and lake storage, ground water levels, and surface and ground water quality. Develops and modifies hydrologic procedures, models, techniques, and plans to ensure optimal use of technologies and data. Utilizes and maintains hydrologic warning procedures and forecast models.

Performs daily hydrologic forecast functions including short-range forecasting during high water and flood events, stage forecasts, daily forecasts, river velocity forecasts, etc. Performs long-range hydrologic forecasting to include spring snowmelt, flood outlooks, river volume, etc.

Develops, modifies and utilizes applicable state-of-the art computer hardware and software components in the preparation of studies of hydrological events and problems; familiarity with procedures and techniques used in computer modeling, including basin calibration, etc.

#### III. FACTOR LEVELS

Factor 1 - Knowledge Required by the Position FL 1-7, 1250 pts.

Knowledge of theories, methods and techniques of professional hydrology sufficient to analyze complex data and formulate and issue a variety of hydrologic products; knowledge of agency programs related to hydrology; knowledge of communications systems and techniques used in hydrologic data collection and dissemination.

Knowledge of radar, satellite and remote instrument technology in the measure of hydrologic data such as stream flow data, river and rainfall parameters, etc.

Knowledge of meteorological principles and practices related to the process of river and flood warning issuances.

Ability to develop innovative approaches and techniques for specialized hydrologic applications sufficient to prepare and issue a variety of products (e.g., water resource analysis, short and long range forecasts, river and stream flow volumes, flood forecasts) or to determine needs, techniques, and procedures for specific hydrologic services.

Factor 2 - Supervisory Controls FL 2-4, 450 pts.

Assignments are received in broad terms with a general outline of objectives. Supervisor and employee may collaborate on items of new technology, with most or all technical responsibility delegated to employee. Controversial problems are brought to supervisor for advice and assistance. Completed work is reviewed for adequacy and compliance with overall policy.

Factor 3 - Guidelines FL 3-4, 450 pts.

Guidelines include operating manuals; regional, national and agency directives; policies, agreements, plans; and other such documents, most of which are general nature. Incumbent uses initiative, resourcefulness, and past experience to develop solutions to problems where precedents are not applicable.

Factor 4 - Complexity FL 4-4, 225 pts.

The work involves diverse hydrologic problems, projects and studies. Assignments may include evaluating and interpreting a range of hydrologic data and adapting it to a range of user interests. The employee may have to weigh and adapt a range of variables to any given situation, such as flood forecasting, water supply evaluation, or other hydrologic problems involving analysis.

Factor 5 - Scope and Effect FL 5-4, 225 pts.

Work involves application of hydrology expertise to make a wide variety of technically sound commitments and recommendations. These are relied upon by management, the general public and special user groups to plan activities and actions affected by hydrologic situations.

Factor 6 - Personal Contacts FL 6-3, 60 pts.

Contacts include Field, Regional and National Headquarters personnel. Interagency contacts include various Federal water management agencies, state and local water management agencies, and civil defense interests.

Factor 7 - Purpose of Contacts FL 7-3, 120 pts.

The purpose of contacts is to negotiate technical approaches to problems; plan with and secure the cooperation of client officials in furthering preparedness programs; and negotiate and explain service levels to specialized and government clients. Individuals contacted may be skeptical, uncooperative, or of differing and conflicting opinions.

Factor 8 - Physical Demands FL 8-1, 5 pts.

Work is primarily sedentary and may involve rotating shifts.

Factor 9 - Work Environment FL 9-1, 5 pts.

The work is performed in a typical office setting.

TOTAL= 2,790 pts.

This position is exempt from coverage under the Fair Labor Standards Act.

#### **IV. UNIQUE POSITION REQUIREMENTS**

(Last updated: November 4, 1994)

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