

## ATTACHMENT A

### DESCRIPTION OF "RESPONSIBLE CHARGE" ENGINEERING WORK SENIOR ENGINEER APPLICATION

The work of "responsible charge" must be performed after obtaining the classification of Professional Engineer.

#### **General Characteristics:**

Has full technical responsibility for interpreting, organizing, executing, and coordinating assignments. Plans and develops engineering projects concerned with unique or controversial problems which have an important effect on major organization programs. This involves exploration of subject area, definition of scope, selection of problems for investigation, and development of novel concepts and approaches. Maintains liaison with individuals and units within or outside of organization with responsibility for acting independently on technical matters pertaining to relevant engineering field. Work at this level usually requires extensive progressive experience.

#### Direction Received:

Supervision received is essentially administrative, with assignments given in terms of broad general objectives and limits.

#### Typical Duties and Responsibilities:

One or more of the following:

1. In a supervisory capacity:
  - A. plans, develops, coordinates, and directs a number of large and important projects of major scope and importance, **or**
  - B. is responsible for the entire engineering program of an organization when the program is of limited complexity and scope. The extent of responsibilities generally require a few (3 to 5) subordinate supervisors or team leaders with at least one in a position comparable to Professional Engineer.
2. As individual researcher or worker, conceives, plans, and conducts research areas of considerable scope and complexity. The problems must be approached through a series of complete and conceptually related studies, are difficult to define, require unconventional or novel approaches, and require sophisticated research techniques. Available guides and precedents contain critical gaps, are only partially related to the problem, or may be lacking due to the novel character of the project. At this level, the individual researcher generally will have contributed inventions, new designs or techniques which are of material significance in the solution of important problems.
3. As a staff specialist serves as the technical specialist for the section, department or City in the application of advanced theories, concepts, principles, and processes for an assigned area of responsibility (i.e., subject matter, function, types of facility or equivalent or product). Monitors new scientific methods and developments affecting the organization for the purpose of recommending changes in emphasis of programs warranted by such developments.

#### Responsibilities for the Direction of Others:

Plans, organizes, and supervises the work of a staff of engineers and /or technicians. Evaluates progress of the staff and results obtained, and recommends major changes to achieve general objectives. Or, as individual research or staff specialist may be assisted on individual projects by other engineers or technicians.