

Advent Engineering Credentials for Performing 10 CFR 50.59 Evaluations

1. Advent staff members were promoting appropriate level of relevant detail in 10 CFR 50.59 evaluations as far back as 1988 when assistance was provided to a client in rewriting its procedure and preparing the pilot evaluation.
2. Quality and cost effectiveness are only achieved in 10 CFR 50.59 evaluations when the preparer has an in depth understanding of design and licensing basis. Advent staff members have this in depth knowledge as a result of:
 - Preparing 14 design basis documents in recent years on a wide variety of topics (many were as pervasive in plant interfaces as the plant process computer system).
 - Performing validation of six major design basis documents.
3. Advent has extensive BWR and PWR plant and procedural knowledge from successfully completing over 30 projects in the past seven years. All of these projects involved design basis understanding and regulatory compliance interface.
4. Advent key personnel have set up industry conference workshops on 10 CFR 50.59 safety evaluations.
5. Advent personnel have multi-discipline expertise including the necessary I&C background to address a process plant computer modification. This expertise includes:
 - Both RG 1.97 and RG 1.47 design and review experience;
 - Participation on IEEE sponsored I&C design standard working groups (WG-6.1 for post accident monitoring, SC-6 for safety system design requirements via IEEE 279, 379, 308, 7-4.3.2, and 384, and SC-3 for maintenance and testing requirements);
 - Extensive EQ instrument and control operability evaluation experience;
 - Extensive fire protection detection review experience;
 - Prior A/E background consisting of input and reviews to evaluate feasibility of a process computer replacement for a PWR plant; and
 - Preparation of the Technical Specification Changes.
6. Advent staff participation at training sessions on 10 CFR 50.59 safety evaluations and a similar in-house training session.
7. Preparation of recent 10 CFR 50.59 evaluations several plants.