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# COCCIARDI and Associates, Inc.

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Risk & Safety Management • Environmental Health  
Emergency Preparedness • Safety Engineering  
Consulting and Training

## **PROFESSIONAL PROFILE**

**ELIZABETH E. RUSSELL, CSP**  
**SENIOR PROFESSIONAL – ENGINEERING**  
**MANAGER: SAFETY ENGINEERING DIVISION**

### **EDUCATION:**

Bachelor of Science, Chemical Engineering (1986)  
College of Engineering, Rutgers University, Piscataway, New Jersey

### **PROFESSIONAL PROFILE:**

Ms. Russell provides technical services in the area of occupational and environmental safety and health. Her duties include screening and implementing requirements of local, state, and federal safety, health, and environmental regulations, including the New Jersey Department of Environmental Protection, Pennsylvania Department of Environmental Protection, Washington State Department of Ecology, Nevada Division of Environmental Protection Chemical Accident Prevention Program, U.S. Environmental Protection Agency, U.S. Department of Transportation, and U.S. Department of Labor, Occupational Safety and Health Administration.

Ms. Russell has performed in Process Safety Management (PSM) for Highly Hazardous Chemicals/Risk Management Plan (RMP) compliance activities at chemical and petroleum facilities throughout the country. In addition, Ms. Russell manages the Safety Engineering Division of Cocciardi and Associates, Inc. where her responsibilities include client development, planning/scheduling, quality control of employee work, formulating client budget needs, billing and performance evaluations. Prior to this position, Ms. Russell coordinated and managed hazardous waste site remediation projects with subsequent analysis and disposal of material and coordinated and directed emergency clean-up crews for land and marine spills.

### **CERTIFICATIONS:**

- Certified Safety Professional, Board of Certified Safety Professionals (CSP-20723)
- Certified, Layers of Protection Analysis (LOPA) for Process Safety Management
- Certified, Compliance Auditing for Process Safety/Risk Management
- Certified, First Aid/CPR/AED/Bleeding Control Practices
- Process Safety Management Program – 29 CFR Part 1910.119(g)
- Risk Management Plan – 40 CFR Part 68
- Process Hazard Analysis – 29 CFR Part 1910.119(e)/40 CFR Part 68.67

### **ASSOCIATIONS:**

- American Institute of Chemical Engineers

**SELECT PROJECT EXPERIENCE:**

- Project: Process Safety Management (PSM)/Risk Management Plan (RMP)  
Process Hazard Analysis
- Description: Conducted process hazard analyses for petroleum distribution and chemical facilities throughout the U.S. in accordance with OSHA's PSM for Highly Hazardous Chemicals and the EPA's RMP regulations. Expertise in the additional requirements of New Jersey Department of Environmental Protection Toxic Catastrophe Protection Act Program, Washington State Department of Ecology and Nevada Division of Environmental Protection Chemical Accident Prevention Program. Facilitated more than 150 PHA studies, via methodologies including Hazard and Operability (HAZOP) Analysis, Failure Mode and Effects Analysis (FMEA), "What If" Checklists and Layer of Protection Analysis (LOPA).
- Project: Process Safety Management (PSM)/Risk Management Plan (RMP)  
Development
- Description: Developed written programs for petroleum distribution and chemical facilities throughout the U.S. in accordance with OSHA's PSM for Highly Hazardous Chemicals and the EPA's RMP regulations. Expertise in the additional requirements of New Jersey Department of Environmental Protection Toxic Catastrophe Protection Act. Responsibilities include facilitating and compiling/documenting (via specific software) risk management studies, developing element programs and providing applicable operator training.
- Project: Process Safety Management (PSM)/Risk Management Plan (RMP)  
Compliance Audits
- Description: Conducted compliance audits for petroleum distribution and chemical facilities throughout the U.S. in accordance with OSHA's PSM for Highly Hazardous Chemicals and the EPA's RMP regulations. Expertise in the additional requirements of New Jersey Department of Environmental Protection Toxic Catastrophe Protection Act. Program audits included an evaluation of the design and effectiveness of the process safety management system and a field inspection of the safety and health conditions and practices to verify that the employer's systems are effectively implemented. Elements of an audit program include planning, staffing, conducting the audit, evaluating hazards and deficiencies and taking corrective action, performing a follow-up and documenting actions taken.
- Project: Liquefied Petroleum Gas System Fire Safety Analyses and Code  
Compliance
- Description: Prepared fire safety analyses in accordance with the Fire Safety Analysis Manual for LP-Gas Storage Facilities and NFPA 58 to satisfy local/state authority with jurisdiction approvals. Conducted interviews with local Fire Departments and associated water departments to obtain data required for the analysis including visiting sites to collect site specific data for analyses.

**SELECT PROJECT EXPERIENCE CONTINUED:**

Project: American Petroleum Institute (API) Recommended Practice 752 Facility (Occupied Building) Evaluation

Description: Prepared facility (occupied building) evaluations in accordance with the API Recommended Practice 752 (“Management of Hazards Associated with Location of Process Plant Permanent Buildings”) and Center for Process Safety (CCPS) “Guidelines for Evaluating Process Plant Buildings for External Explosions and Fires”. Evaluated on site structures relative to potential fire, blast (overpressure), and toxicity/flammable concentration plume scenarios and provided subsequent recommendations for mitigation options.