

Resumé

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EXPERTISE:

Fire Protection Planning, Fire Code compliance, and Risk Analysis for residential, institutional, commercial, industrial and petrochemical developments. Wildland-Urban-Interface Fire Protection Planning, Vegetation Management plans, Hazardous Materials Management, Standards Development, Plan Review, Emergency Planning and Risk Management. Risk Management Plans, Business Plans, Hazardous Materials Management Plans, scenario based corrective actions, Fire Station location studies, Fire Department Strategic Plans, Fire safety elements of EIR's and General Plans.

EXPERIENCE

FIRE SERVICE:

42 years extensive Fire Service related experience in Southern California. 16 years Fire fighting experience. Served in all Fire Service ranks including Battalion Chief with the City of Huntington Beach.

Responded to and commanded numerous structural, petroleum, hazardous materials, EMS and wildland emergencies, as a Captain and Chief Officer.

Served as Fire Department Training Officer and Assistant Fire Marshal. Established and enforced new development conditions for numerous petroleum and hazardous materials facilities. Designed and enforced Fire codes and standards in petroleum and hazardous materials facilities. Have served as an instructor in the field of emergency management, ICS, firefighting, fire protection and fire prevention, since 1967.

CONSULTANT EXPERIENCE:

President of Hunt Research Corporation since 1979. Specializing in Risk Management, Fire Protection Planning, Fire Vegetation Management Plans, Fire Code compliance, Emergency Planning and Hazardous Materials Management. Serve as consultant to governmental agencies and industry. Extensive experience

conducting Fire Department studies, Preparing Strategic Plans, and conducting Fire Station location studies.

Fire Protection Projects Involving Commercial, Industrial, Residential and Institutional Facilities:

Extensive experience in Hazard Analysis, Risk Assessment, Fire Code compliance, and Fire Protection planning for oil and gas facilities, refineries, pipelines, airports, water treatment facilities, chemical plants, power plants, hazardous materials users, Storage facilities, plating plants, LNG facilities, Hydrogen gas plants, and other industrial/commercial facilities, retirement communities, shopping centers, institutions, residential developments in wildland/urban interface areas. Review of detailed Fire protection system and equipment plans and specifications. Project consultant for all stages of development including Environmental Impact Reports, Specific Plans, planning and plan review. Produce Fire Protection plans, Vegetation Management plans, Business Plans, Hazardous Materials Management Plans, and Risk Management Plans. Develop Public Safety elements for General Plans. Conduct Fire Station Location Studies. Conduct vegetation and Structural Risk Assessments of Communities. Have extensive background in planning and specifying Fire protection equipment systems and procedures for protection of complex fire risks, P&ID review and review of various documents for compliance with codes and standards, and the review of process safety and Fire prevention procedures.

Project Involvement:

Have been involved in projects for the following companies as a consultant for the company or the local governmental agencies. Some of those projects include the following:

Commercial/Industrial/Residential:

Camino Real Marketplace Shopping Center
Chevron Texaco Hydrogen Fuel Processor Test Facilities
Western LNG Facility: Southern California Gas Company
Union Pacific Railroad LNG Facility (Los Angeles)
Burlington Northern Santa Fe Railroad Tank Farm (Los Angeles)
County of Santa Barbara
Los Angeles County Fire Department
Hyatt Hotels
Red Lion Hotels
Sheraton Hotels
Hampton Hotels
Santa Barbara Resort and Spa
Santa Barbara Botanic Garden

Heritage House assisted living facility
Maravilla Retirement Community
Spectrum Chemical Company
Valley Plating Works
Reno International Airport
Pacific Offshore Pipeline Company
Coastal Oil & Gas
Conoco Oil
Exxon USA
General Motors Corporation
Mobil Oil Company
Chevron USA
Texaco
All American Pipeline Company
Phillips Petroleum
Shell Chemical Company
Husky Oil
Atlantic Richfield Company (ARCO)
ARCO L.A. Refinery Hydrogen Plant
Unocal
Mariposa Pipeline
Pacific Pipeline
Stocker Resources Inc. Gas Plant
Hallidor Petroleum
Colton Bishops Storehouse
Tidelands Oil Production Company
Delco Electronics (Hughes Aircraft)
Los Angeles Department of Water & Power
Gruber Engineering
Wilco Products
City of Santa Cruz Golf Course
AMVAC Chemical Company
Shell/ Equilon Chemical Company
Molino Energy Company
Benton Oil & Gas Company
Air Products & Chemical, Inc.
Standard Pacific
Spring Pacific Properties
Signature Properties
Bluegreen West
Providence Landing Project
Reliant Energy Power Plant; Casagrande Arizona
Duke Energy Power Plant; Morro Bay
Otay Mesa (Cal Pine) Power Plant; San Diego
AES Power Plant; Huntington Beach
Blythe Power Plant

Vernon Power Plant
Lagasse Brothers Janitorial Supply
Reinhold Plastics
Los Angeles Chemical Co, South Gate
Royal Paper Co., Santa Fe Springs
Sonoma County Hazardous Waste facility
J.B Dental Supply; Carson Cal and Coppell Texas
Roland Corp; Commerce Cal
Burlington Northern Santa Fe Modular Trailer storage facility; Commerce Cal
Imation Corp, Camarillo
Kemiron Pacific, Fontana Cal
Texaco Global Energy
Miller Brewing Company
MSE Environmental; Camarillo Calif.
General Plating Co, Commerce Calif
LDS church project; Fallbrook Calif
Pinamonte Development; Fallbrook Calif
Shea Homes
Covington Development
Centex Homes
Cypress Land Co
Zurn Products
Numerous clients for residential, industrial and commercial Fire Protection and
Vegetation Management Plans in the Urban Wildland Interface areas (over 100
completed).

Emergency Planning Projects:

Experience includes Risk Assessment, writing and reviewing emergency response plans, spill response plans, emergency checklists, design of Incident Command Systems, Standardized Emergency Management Systems (SEMS), Emergency operations center design, exercise design, conducting major exercises. Have designed or reviewed emergency plans for major nuclear facilities, petroleum installations, government agencies, high rise and hotels. Have designed model emergency response plans for government and industry. Have taught Incident Command System and emergency management courses throughout the country, since 1975. Introduced the Incident Command System to the Federal Emergency Management Agency (FEMA) National Fire Academy in 1980. Co-inventor of the nationally used "Incident Command System" vests, and mobile command post hardware.

Project Involvement:

Have been involved in projects for the following companies as a consultant to industry or government:

City of Ventura
 County of Ventura Public Health
 Southern California Edison
 Los Angeles County Jail
 City of Huntington Beach
 County of Santa Barbara
 City of San Luis Obispo
 Livermore Nuclear Laboratories (DOE) (held a secret clearance)
 Chevron USA
 Exxon USA
 Texaco
 Shell Oil Company
 All American Pipeline Company
 Unocal Corporation
 Pacific Offshore Pipeline Company
 ARCO Oil & Gas
 Hallidor Petroleum
 Diablo Canyon Nuclear Plant
 City of Dallas, Texas
 Red Lion Hotels
 Cuesta College
 Santa Maria School District
 Molino Energy Company
 Santa Barbara Club Resort & Spa
 Casa Grande Arizona Fire Department
 Karl Stortz Imaging
 City of Azusa

EDUCATION & CERTIFICATION

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| Associate in Arts Degree | Police Science | 1963 |
| Associate in Arts Degree | Fire Science | 1966 |
| Lifetime Instructors Credential; | State of California | 1976 |
| Bachelor of Science Degree | Fire Science | 1985 |
| National Fire Academy | Graduate | 1989 |
| Hazardous Materials Management Specialist | Certificate | 1990 |
| Professional Fire Safe Inspector | California | 1999 |
| California State Fire Academy | Graduate | 1996 |

COMMITTEE MEMBERSHIP

- * Fire Prevention Officers Association: Flammable Liquids & Gases, & Wildland-Urban Interface Fire code committees;
- * U.S. Task Force on Sheltering-in-Place During Hazardous Materials Emergencies; EPA/Fema;

- * Santa Barbara Fire Safe Council
- * Western Fire Chiefs Association Wildland-Urban Interface Planning Task Force;
- * Community Awareness & Emergency Response (CAER), Santa Barbara County.
- * National Fire Protection Association Wildland Fire Management Section.

PUBLICATIONS

- 17 articles in National Fire Protection publications regarding hazardous materials and other fire protection issues;
- Book: *Development Strategies in the Wildland-Urban Interface* (WFCA 1991);
- Four nationwide training courses for the National Fire Academy;
- Multi-Agency Oil Spill Response utilizing the Incident Command System
“Occupational Health & Safety Magazine” June 1993.
- Book: “*The I Zone: California’s Mitigation Strategies*” (State Fire Marshal; 1996)
Paper: “*Scenario Based Fire Protection Planning for New Development*”
presented to the California Fire Prevention Officers Institute (Jan 2002)