

**Dinter Engineering,
Company**

*Airfield Lighting
Electrical Systems
Mechanical HVAC
Plumbing
Since 1961*



Dinter News

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Spotlights:

- Dinter successfully completes third consecutive design build project at Naval Air Station, Fallon in Northern Nevada, Home of the Top Gun Flight School
- Phoenix Office Has Continued Success
- Dinter Recently Selected for Exciting New Design Projects
- President Pete Hackbusch Celebrates 30 years with Dinter Engineering

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NAS Fallon Taxiway Alpha is a Huge Success

Dinter Engineering recently completed the design of 14,000 feet of electrical reconstruction. Hired by Alutiqq, an Alaskan Native construction company selected for the 8(a) set aside design-build construction project at NAS Fallon, Dinter worked closely with local electrical contractor, McFadden Electric, to design the new lighting and signage system.

Reconstruction projects are always difficult, but this project was a huge success. Utilization of existing infrastructure and directional drilling under taxiways helped preserve the recently paved Taxiway Alpha. New LED edge lights were installed on either new or existing foundations and connected to new isolation transformers with new cabling providing a low resistance, low wattage, high efficiency system that exceeded expectations. The airfield's guidance signage was updated

with the latest Siemens fluorescent lamp signs, and new circuit home runs were installed back to the constant current regulators.

NAS Fallon, which the Navy calls the premier tactical air warfare training center, provides a unique landscape for design and construction. They say NAS Fallon is the "only facility in existence where an entire carrier air wing can conduct comprehensive training while integrating every element of the wing into realistic battle scenarios."

Dinter was recently selected again for two new design projects at NAS Fallon.



New Electrical Pullbox with Airfield Lighting Cables



New Guidance Sign Installed on Existing Concrete Apron



Mechanical Department Selected for VA Med Upgrade

September brought good news, as Dinter Engineering Company was selected as the best qualified design firm for the HVAC replacement and upgrade project at the Veteran Affairs' Sierra Nevada Medical Center in Reno, NV. The project, with a construction cost estimated over \$10 million, will consist of replacing and upgrading the

existing steam heating and window air conditioning unit system. Dinter will call upon our expert staff to propose different solutions to installing new modern and energy efficient heating and cooling systems in the 60 year old facility.

Dinter Engineering was selected as the prime consultant and

compiled a team of experts including local firms, Hyytinen Engineering (structural), Converse and Associates (asbestos), and Rolf Jensen and Associates (fire safety) from Phoenix, AZ. Dinter will also provide electrical support to the HVAC design.





New Threshold Lights at Okanogan Legion Airport in Washington

“We helped Okanogan Airport, a non-NPIAS airport, relight their runway under WASHDOT funding and schedule restraints”

*Tim Prockish, PE
Dinter Engineering’s
Chief Electrical
Engineer and VP*

Okanogan Legion Airport, Okanogan, Washington

When the City of Okanogan in Washington asked us, “Can you have it ready for bid in 6 weeks”, we unanimously responded, “yes.”

Often, airports must have bids by a certain date in order to obtain their project funding, and we take great pride in our ability to meet those quick deadlines and assist the airports when they are in a bind. Although the Okanogan Airport project was a relatively small job with a total construction cost of \$130,000, Dinter’s

aviation team also completed in 2005 a \$4 million all electrical reconstruction of the entire Southern California Logistics Airport. This work consisted of new lights, signs, cable, five miles of fiber optic cable, a new electrical vault building, and a new airfield lighting control system in 10 weeks. Thus, we already had practical experience going into the Okanogan project.

The scope of the Okanogan Airport project was to upgrade the existing parallel lighting

system consisting of direct buried cables and stake mounted fixtures with a new constant current series lighting system featuring new conduit, cables, lights, and base can foundations. We also moved the wind cone and installed a new regulator in the hangar.

Dinter also provided construction support and final inspection services.



Industry Experience

- Airports, Terminals, Hangars, Aprons, ARFFs, Electrical Vaults
- Commercial, Shopping, Financial Institutions, Retail, Restaurants
- Correctional, Prisons, Jails, Public Safety Centers, Fire Stations, Police Stations
- Educational, Colleges, Schools, Libraries
- Industrial, Vehicle Shops, Warehouses, Plants
- Medical, Health Care, Hospitals, Dental
- Municipal, Courts, City Halls, Legislative Buildings
- Military Facilities
- Offices, Tenant Improvements
- Parking Lots, Parking Garages
- Pumping Stations, Wells, Lift Stations
- Recreational, Parks, Museums, Community Centers,
- Clubhouses, Swimming Pools, Athletic Fields
- Churches
- Residential
- Street Lighting, Traffic Signals
- Power Distribution, Substations, Utilities
- Security, CCTV, Cameras, Intrusion Detection
- Communication, Controls, Fiber Optic Systems



Mechanical Department Services

- Heating, Ventilating, Air Conditioning
- Central Plants (Boilers, Chillers)
- Co-generation Systems
- Steam Heating and Process
- Underground Utilities and Distribution
- Vehicle Exhaust Source Extraction Systems
- Fire Protection, Fire Suppression, Fire Sprinklers
- Plumbing, Fuels, Gases, Liquids, Domestic Water, Drainage, Waste, Vent
- Waste Handling and Storage
- Grease Hood Ventilation for Kitchens
- Backflow Prevention
- Compressed Air
- Process Piping
- Fuel Storage and Dispensing
- Temperature and Process controls
- Solar Heating, Water Heating
- Hydronic Snowmelt
- Energy Management, Energy Control
- Energy Audits and Efficiency
- Studies
- Reports
- Inspection Services
- Construction Observation
- Plan Review



Phoenix Update: Trains, Planes, and Automobiles

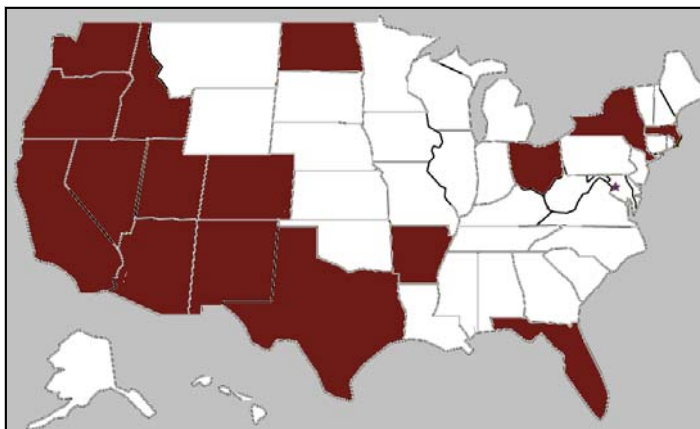
- Dinter Engineering is gearing up to produce the 30% submittal for ALL the Mechanical, Plumbing, and Electrical (MP&E) design for the \$800 million Phoenix Sky Harbor International Airport Automated Train Project (PSHIA AT). Dinter President Pete Hackbusch and Mechanical Department Manager Tom Federici have been attending meetings and providing feasibility reports for design concepts such as solar power, wind generation, and biofuel alternatives. Dinter will provide the 30% design in January 2008, with the support of three local minority and woman owned businesses.
- Working as a sub-consultant to Carter-Burgess' Phoenix office, Dinter is gaining great experience under the CM@Risk process. Kiewit Construction will build the taxiway improvements. This new process integrates design-bid-build and design-build methods to ensure a successful end project. Construction will begin in late 2007.
- To complete the transportation theme, Dinter sees continued success in the new Phoenix office after being selected for the MP&E design on the new Sharpe Dealership in Phoenix, AZ.



Scottsdale Airport



Aviation Experience



Dinter Engineering's Aviation Department has experience with **500** airport MP&E Projects, at over **100** airports, in **16** states, in the last **44** years. Dinter is currently registered in **13** states.

Dinter's Aviation Department consists of **7** full time members, and **5** members who split time between airport projects and other industries.

"We care about the industry, and we care about local small business. Dinter hired several local DBE electrical firms to support us on the PSHIA AT Project."

Ken Pratt, MBA

Phoenix Office Manager

Aviation Department Services

- Runway and Taxiway Ltg
- Guidance Signage
- Apron Lighting
- Helipad Lighting
- NAVAIDS (PAPI, REIL, ILS, MALSR, ALSF, wind-cones)
- Airfield Lighting Control Systems (ALCMS, CALCS)
- Low visibility lighting and control (SMGCS)
- AWOS & ASOS
- Rotating Beacons
- Underground Utilities
- Airfield Power Systems
- Constant Current Regulators
- Terminal Mechanical, Plumbing, and Electrical (MP&E)
- Hangar MP&E
- ARFF building MP&E
- Security Card Access
- Access Control Gates
- Perimeter Intrusion Detection Systems (PIDS)
- Fiber Optic Communications
- Electrical Service and Distribution
- Electrical Master Plans
- System surveys and studies, including Photometric Testing and Reports
- Construction Observation
- Inspection Services
- Plan Review
- Cost Estimating



Performing Investigations for the Glide Slope at SCLA

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Dinter Engineering's President Celebrates 30 Years

2007 is a landmark year for Dinter Engineering Company's President, Pete Hackbusch. He began his career in San Diego, California over forty years ago. In 1977, Mr. Hackbusch accepted a designer position at Dinter Engineering Company offered to him by Hubert Dinter and moved his family to Reno, Nevada. Mr. Dinter, the founder of the company, was a German immigrant electrical engineer who was the sole owner at the time.

Thirty years later, Mr. Hackbusch still calls upon his design experience on a daily basis for projects like the Phoenix Sky Harbor International Airport Automated Train and McCarran International Airport Perimeter Intrusion Detection System, where he is acting as Principal-in-Charge and Electrical Project Manager.



Electrical Department Selected for Nevada State Prison Work

Dinter's electrical department recently began negotiations as prime engineer to provide two northern Nevada state prisons with 450 surveillance cameras and associated infrastructure. Dinter Engineering will be working closely with Buford Goff of Buford Goff and Associates, a highly respected prison security system designer. The project's construction cost is estimated at \$3.7 million.

In addition, in November 2007 Dinter's electrical staff will begin the survey and documentation of the existing electrical distribution systems at two Eagle Pitcher mining processing plants near Reno.



Pete Hackbusch shown inspecting the new switchgear style regulators at Southern California Logistics Airport New Lighting Vault designed by Dinter Engineering Co.

Electrical Department Services

- Power Transmission and Distribution
- Substations and Generating Plants
- Building Power
- Standby Generators
- Uninterruptible Power Supply (UPS)
- Interior Lighting, Controls, and Dimming
- Exterior Lighting, Controls, for Roads, Parks, Aprons, Parking Lots
- Fire Alarm and Detection
- Building Security and Access
- Prison and Jail Security and Control
- Security Fencing and Automatic Access Gates
- Intrusion Detection (IDS)
- Closed Circuit Television (CCTV)
- Security Electronics, Duress Alarms, Card Access, Prison Locking, and Facility Control Panels
- MATV Distribution
- Communications, Telephone, Data, and Fiber
- Optic Communication Systems
- Energy Management
- Pump Station Power System
- Pump Station Controls and Telemetry
- Studies and Surveys
- Plan Review