



BTUS NUCLEAR NEWS BULLETIN

BTUS SERVICES ANNOUNCEMENT

Industry Leader for Used Fuel Management Oversight/Assessment Support Services

BT Utility Specialists (BTUS) continues to look for “value-added” opportunities to demonstrate our commitment as a qualified proven services provider to our Client Customers. BTUS is excited to announce our new Used Fuel Management (UFM) Oversight/Assessment Support Services as a proven solution to recent industry events. BTUS has revised our Used Fuel Management (UFM) approach to meet emerging market needs as a means of demonstrating our Subject Matter Expertise and becoming the industry leading provider for independent third-party oversight/assessment services. In addition, BTUS also provides full-scope fixed-price or staff augmentation canister loading services based on the needs of our Client Customers’. Our BTUS UFM Oversight/Assessment Services allows our Client Customers’ an incremental approach to a potential full-scope or “teaming” canister loading services solution.

BT Utility Specialists has provided used fuel independent third-party oversight/assessment support services to various utilities encompassing the three (3) leading industry cask systems; Holtec, NAC and Transnuclear (TN). Our performance resulted in numerous accolades from our Client Customers’ and requests for additional services.

BT Utility Specialists Used Fuel Management Oversight/Assessment Support Services applies to every aspects of our Client Customers’ 10CRF Part 72 Program. The specific elements of our BTUS service offering are as follows:

1. Used Fuel Management Assessment Services
 - 10CFR Part 72 Readiness Assessment (includes Licensing)
 - NRC ISFSI Inspection Readiness Assessment
 - ISFSI Specific Site Heavy Loads Program Assessment
 - ISFSI Loading Campaign Readiness Assessment
 - Site Canister Welding Program Assessment

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- Assessment and Incorporation of New Cask Vendor License Amendments
- 2. Used Fuel Management Independent Third-Party Oversight Support Services
 - ISFSI Pad Construction Oversight/Supervisory Support
 - Cask “Overpack” Construction & Assembly Oversight/Supervisory Support
 - ISFSI Loading Campaign Oversight/Supervisory Support
 - Canister Welding Program Oversight/Supervisory Support
 - Canister Fabrication Quality Oversight Support
 - ISFSI Associated Quality Assurance and Quality Control Field Services

BT Utility Specialists staff consists of numerous 10CFR Part 72 ISFSI Subject Matter Experts (SMEs) specific to every aspect of our Client Customers’ programs. BTUS is currently performing these services for various Client Customers’ in the U.S. nuclear fleet.

We are very proud of our staff and their commitment to our Client Customers’. BTUS continues to overcome the various obstacles unique to our business and industry. We have focused on the changing regulatory and operational requirements of our Client Customers’, focusing on developing business strategies that place more control on price and quality in the hands of our Client Customers’. We believe there are specific types of services where a “teaming” arrangement would greatly benefit the Client Customer financially and lower their “risk management” exposure. Our strength is BTUS’s ability to tailor our service offerings to fit a Client Customer’s unique set of circumstances.

Our UFM Oversight/Assessment Support Services is designed to provide the Client Customer a true independent third-party service with subject area expertise that fully addresses the growing concerns from our industries regulatory body, not specific only to dry cask storage, but to all worked perform within a Part 50 facility by an outside service provider.

Regarding ISFSI loading campaign oversight, Mr. John Giles, BTUS Loading Campaign Subject Matter Expert (SME), said "the goal of oversight is to ensure our customer has a successful and uneventful campaign. One of the best ways to provide this is using lessons learned and operating experience from the industry to understand where error traps exists and avoiding them." Mr. Giles provides loading campaign oversight expertise for both NAC and Holtec cask systems and is currently assisting our Client Customer with their Holtec system loading campaign.

Mr. Robert (Bob) Vandevender, BTUS Loading Campaign Subject Matter Expert (SME), provides oversight and project management services specific to NAC and Transnuclear NUHOMS systems. Mr. Vandevender offered his reflections relating to BTUS’s loading campaign oversight support role by saying, “for turn-key contracted loading campaigns, we provide expert representation for the client utility in an oversight role in the following areas:

- Provide expert advice on the canister vendor's Certificate of Compliance (CoC), Technical Specifications (Tech Spec) and FSAR requirements during program/procedure development and act as a safety net for both project and site personnel to ensure compliance during the canister loading process
- Provide input to the project team regarding industry Operating Experience (OE) and Lessons Learned (LL) from previous fuel loading campaigns
- Assist various utility department managers successfully complete their Loading Campaign Readiness Assessment activities
- Review canister loading procedures for technical accuracy and applicable OE/LL
- Provide project schedule input based on loading campaign experience
- Recommendations to Engineering Department personnel regarding the operations side of the canister loading process
- Support to the project team during events or conditions that might arise during the loading campaign
- Advise Operations Department personnel on canister Tech Spec requirements and potential Part 50 facility risk assessment
- Recommendations for Condition Report resolutions/responses
- General technical and safety oversight of the supervisors and staff performing the fuel loading campaign to ensure procedural compliance and nuclear fuel safety
- If requested, provide Shift Management or Supervisory support for the client utility to interface directly with the loading campaign lead personnel
- Serve as a client evaluator for both internal and NRC dry runs to include CoC required training exercise or a pre-campaign dry run. Provide recommendations for improvements in the loading process regarding safety, ALARA, schedule efficiency, and technical related issues.
- Attends and contribute “value-added” information to pre-job briefings and Infrequently Performed Tests or Evolutions (IPTE) briefings
- Assist the client utility ensure their vendor(s) comply with site requirements including safety, control of chemical use in and around the Spent Fuel Pool, Foreign Material Exclusion or 10CFR26 Fatigue hour requirements, as requested”

BTUS recently successfully completed canister welding support services specific to the NAC MAGNASTOR system that included program development, oversight and equipment technical services. Mr. Hayes (June) Morgan, BTUS Part 50 and Part 72 Welding Program SME, offered his summation of their efforts, “We had a very successful fuel loading and canister welding campaign. The team developed the NAC MAGNASTOR welding program, created the associated travelers (PQR’s and WPS’s), and trained and tested the assigned welders on a newly design robotic canister welding system. In summary, we successfully welded closure lids on 61 NAC MAGNASTOR canisters and 4 NAC GTCC canisters, for a total of 65 canisters in just over 1 year.

The Client Customer was pleased with the overall effort and oversight during the welding activities and our E-Tech's effort maintaining the equipment in top working condition.

Our BTUS ISFSI Pad and TN NUHOMS HSM Construction SME, Mr. David Kern, has successfully completed multiple HSM construction oversight and field supervisory services for BTUS to include an on-site pour option for Cooper Nuclear Station. Mr. Kern has also provided ISFSI pad construction management and oversight services in the recent past. Mr. Kern stated "BTUS provides a unique independent third-party field construction oversight service in that it incorporates all three leading cask systems. Our efforts at a mid-west utility resulted in significant cost savings based on our past experience with their selected cask designer. The same can be said regarding our oversight and management of a HSM-H expansion project in the northeast, which had unique site-specific issues to manage to ensure project success. Our staffing depth in this subject area can address any of our Client's issues.

Mr. Paul Gillespie, BTUS Director of Nuclear Oversight, provides decades of Nuclear Quality and Oversight experience to our program. When asked about BTUS Quality and Oversight capabilities, Mr. Gillespie says, "BT Utility Specialists personnel have successfully performed independent oversight of nondestructive examination (NDE) processes, reviewed spent fuel storage canister final document packages for compliance to requirements, performed source surveillance at canister fabricator's facilities, and monitored other quality-related activities associated with the dry storage of spent nuclear fuel. In addition, our personnel have performed numerous audits of suppliers who provide support services and welding material related to used fuel loading campaigns. Our staff remains highly capable and ready to perform these services for our Clients.

BTUS is proud of our unique ability to provide our Client Customers' Mr. Scott Atwater's extensive 10CFR Part 50 and Part 72 subject matter expertise that includes both commercial nuclear and NRC ISFSI Inspection perspective. Mr. Atwater commercial operations and Senior NRC ISFSI Inspector's experience affords our Client Customers' a comprehensive "to the point" assessment with respect to their specific needs.

For example; Mr. Atwater's review of our Client's NRC Initial ISFSI Inspection reduced approximately 600 initial questions to 40 resulting in significant time and financial savings. Mr. Atwater has also performed cask technology change assessment, most recently involving a shift to NAC's MAGNASTOR system technology for one Mid-Atlantic utility. Other Client Customers' have requested Mr. Atwater review, update or development of their heavy loads program to verify Part 72 compliance. Mr. Atwater continues to provide "proven value-added" services to our Client Customers' resulting in continued or additional BTUS services.

The following is a small pictorial representation of our 10CFR Part 72 support services from various contracts both current and past:

2013 HSM Site-Pour & Construction Project



2012 HSM-H Installation Expansion Project



Various ISFSI Loading Campaigns



2013 – 2015 NAC MAGNASTOR Canister Welding Program



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BT Utility Specialists is ready to ensure your next ISFSI related project successful and fully exceeds your expectations. For additional information, please contact one of the following:

Administrative Information Contact:

Mrs. Denise McClay
Administration Manager
Office: (205) 637-3077
Email: Denise@BerniesTeam.com



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