

Irradiator System Health Check

GEMINI TECHNOLOGY can provide an IRRADIATOR HEALTH CHECK of existing 3rd Party Irradiator systems. This entails transferring all radioactive sources into an SSV (Source Storage Vessel), inspecting and replacing key internal mechanical parts, re-loading sources and then fully testing the system.

Irradiator Corrective maintenance

- Irradiator condition assessed by experienced engineers
- Areas of poor design and construction require corrective and preventative maintenance.
- Known weakness with Source Carousel construction and design which has been proven to lead to critical failure of Irradiator.
- Sources are highly likely to get stuck during exposure.
- Source must be unloaded and stored before inspection can take place.
- Schedule a GEMINI Health Check at a time that suits you.
- Don't let an accident happen at the worst opportunity, due to a known weakness.



SSV Purchase or short/long term lease.

- Gemini's GT-SSV are compatible with all existing 3rd party transfer equipment.
- The only 3rd party held Source Storage Vessel is now out of commission.
- Essential to enable the safe storage of transferred sources during a GEMINI Health Check.
- Can be located inside Exposure Cell or easily relocated due to the modular design.
- Can be used to store old radioactive sources to decommission old Irradiator being replaced with new one.
- Range of sizes & capacities available to suit any Irradiator System Short or long term lease options available, or purchase your own.

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Sources safely transferred into GT-SSV

- Classified worker experienced in using transfer equipment.
- Detailed Method Statements created to ensure minimal dose received.
- Qualified in using Slings and Lifting equipment.
- Suitable RPS training to ensure ALARP during all transfers.
- Use RPA advice for setting up controlled area.



New Carousel, Shaft and Bushes

- New Carousel precision manufactured at GEMINI.
- New precision manufactured Shaft and Bushes.
- All Cams and Mastercam inspected and replaced if required.
- Any Cam micro switches replaced if required
- All parts precision manufactured & inspected under Gemini's Quality System.

Irradiator testing & Source Re-load

- Test new carousel parts mechanically then using control software
- Safe re-loading of sources from Source Storage Vessel into Irradiator.
- Irradiator tested to ensure all correct dose rates are recorded at documented source positions.
- A full system test carried out to customers satisfaction.
- SSV moved into customers desired location.

