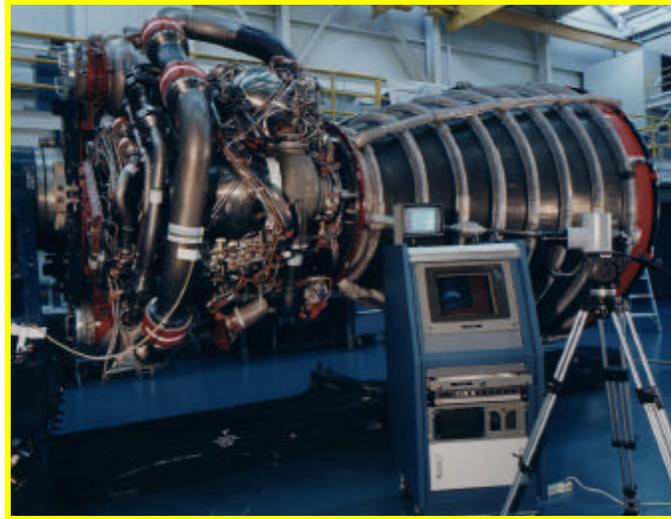




Facility Leak Visualization



Objective

This product allows direct visualization of gas leaks from a facility or facility-like situation. It uses a seeded gas flow (purge-i.e.N₂) seeded with another gas or a specific purge gas (i.e. N₂O). Should the system under surveillance have leaks of such size as to permit the target gas to escape, then infrared absorption techniques are used to identify the position and size of the leak. The system converts the acquired data into pseudo-images which are then impressed upon a real time video image allowing rapid location of the leak.

Why Needed

Technology is needed to assure leak-free ducting on engine stands and on vehicles prior to loading propellants. Since vehicles must be certified as leak-free prior to launch, this would be one step in the process that could reduce manpower requirements. This procedure could be automated but at present is best used by operating personnel.

Point of Contact

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Sponsor

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