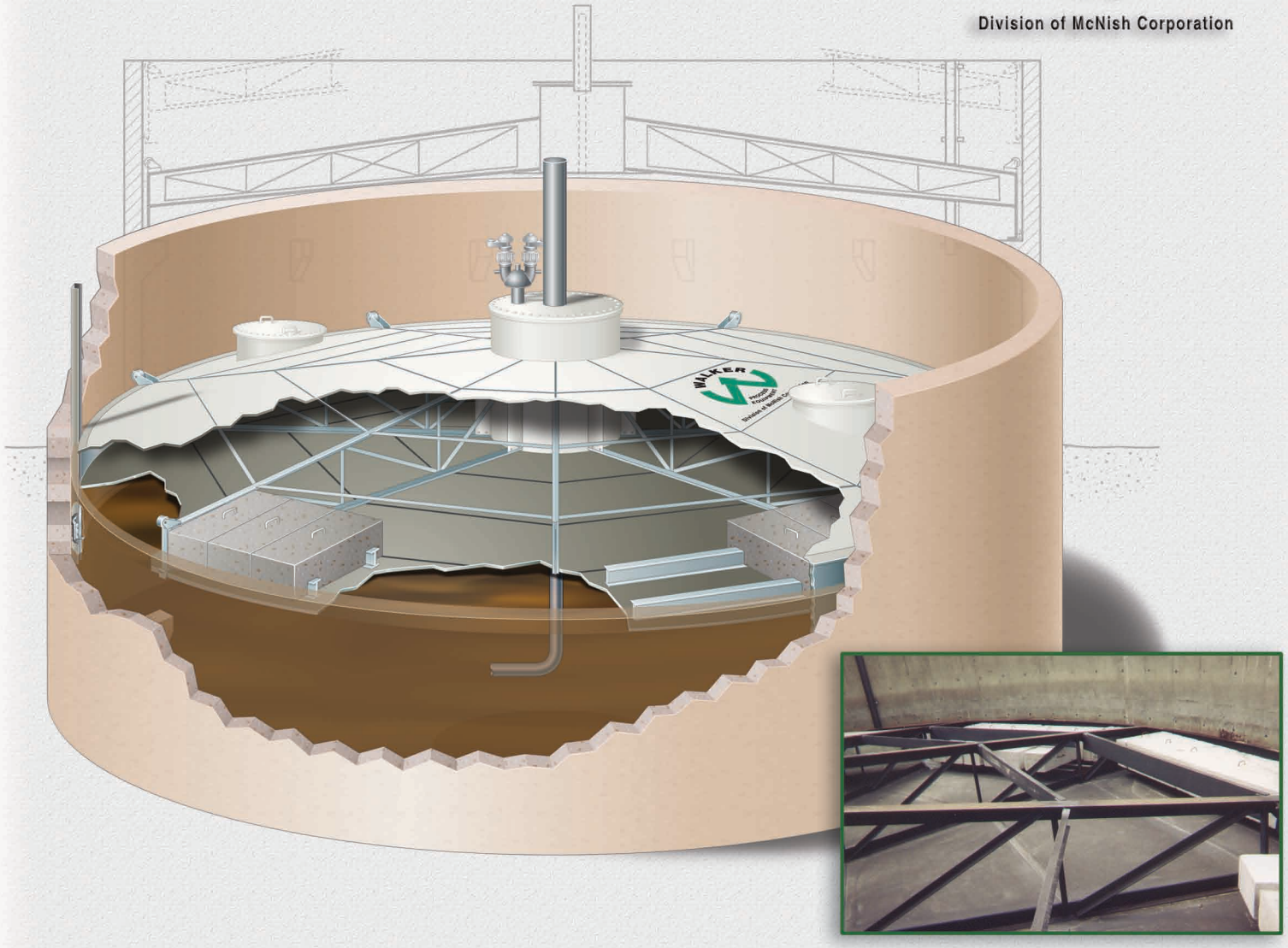
Anaerobic Digester
Floating Cover

WALKER PROCESS EQUIPMENT

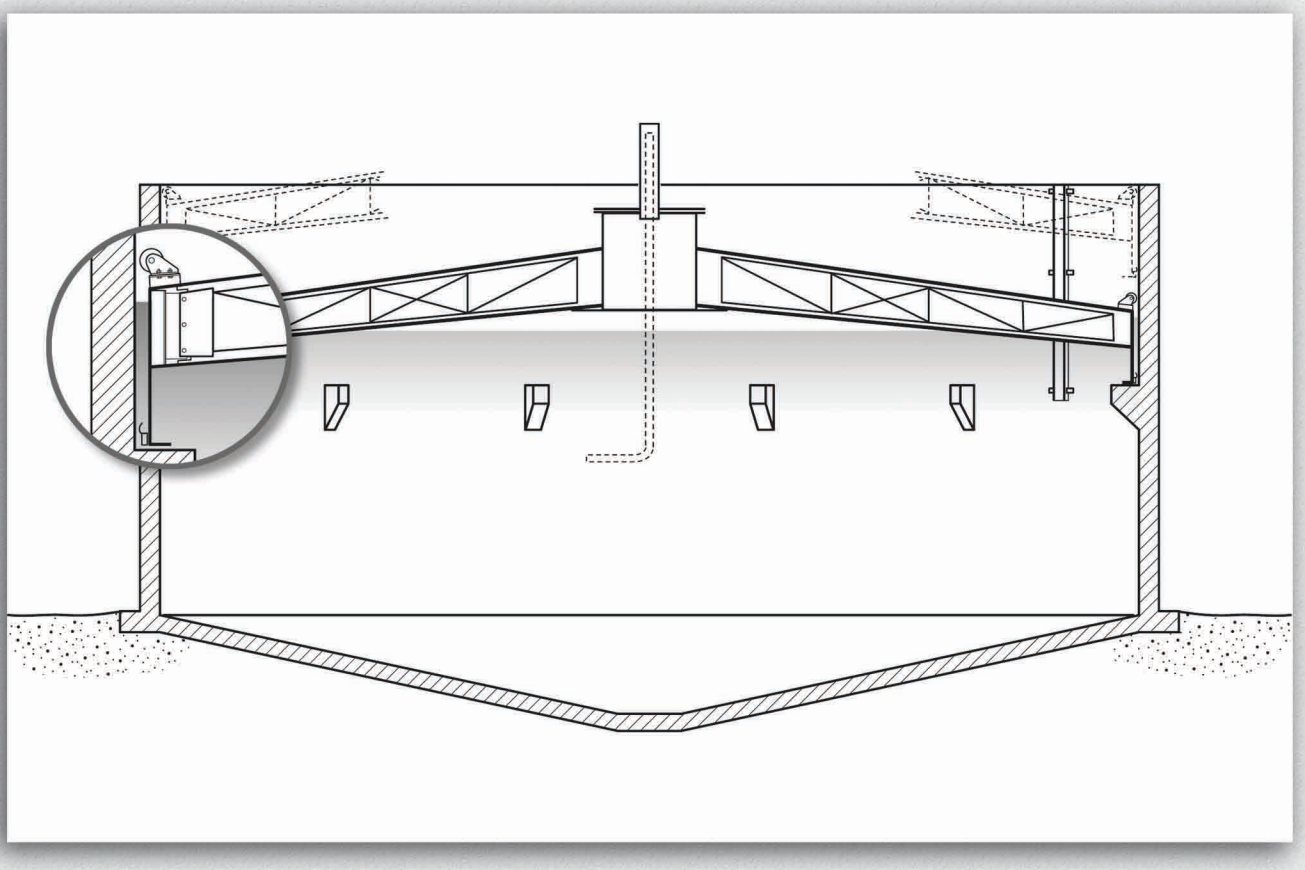
Division of McNish Corporation



Frame Designed Radial Truss Floating Cover

Time-Tested, Longest Lasting, Most Stable Digester Cover in the Industry

- **Low Profile - Radial Truss Frame Construction - Completely Self Supporting.**
- **Frame Design for High Structural Factor of Safety.**
- **Readily Insulated.**
- **Variable Sludge Level with Constant Pressure.**
- **Hundreds Installed with Proven Long Life Over Decades of Service.**
- **Typical Sizes Range from 20 to 120 Feet in Diameter.**
- **All Walker Process Covers are Custom Designed for Project Specific Loading Conditions.**
- **Inherently Stronger and More Substantial and More Stable than Membrane Type Covers.**
- **Typical Application - Primary Digester with Variable Sludge Level .**
- **Typical Design Pressure to 16 Inches W.C.**



Conservative Design for Long Service Life

Walker Process Floating Covers are constructed with tapered radial trusses and designed based on a conservative frame design method that takes into account both the main structural elements and elements of the plate work for analysis of structural integrity.

After field welding is completed, the finished structure demonstrates superior strength and durability because the structural framework and steel plates work together as an integral unit.

The radial trusses are designed with an upward sloped bottom chord to produce a durable and stable cover to suppress surface scum, while providing superior frame strength for a long safe service life.

Main Rafters	Radial Truss design produces maximum structural integrity with sufficient depth to provide an attic space for inspection, protection of the trusses, and keeps ballast from exposure to the atmosphere either inside or outside of the digester.
Gas Dome	Provides the structural connection for the radial trusses Includes a top plate for mounting gas lines. Pressure/Vacuum Relief valve and other accessories.
Rim Plate	Minimum 3'-0" deep provides sufficient depth for freeboard, operating pressure and seal.
Purlins	Structural members connected between main rafters to provide lateral bracing, rigidity and support for the roof plates, minimum ¼ inch thick.
Roof Plates and Ceiling Plates	Minimum ¼ inch thick plate field welded to the main truss structure. The dual deck design provides an accessible weather protected attic for the addition of insulating concrete to be placed on the ceiling plates as well as providing protection for ballast blocks.
Guide Systems	Heavy 10.75 inch diameter cast iron rollers at each truss with anti-rotation guide system.
Appurtenances	Access hatches, sampling wells, pressure and vacuum relief valve and Cover Position Indicator.

Walker Process has continuously provided and improved steel digester covers since 1948.

See our complete series of digester covers including; fixed cover, gasholder, and combination floating cover/gasholder.

Walker Process Equipment
Division of McNish Corporation
840 N. Russell Ave. • Aurora, IL 60506 • 1-800-992-5537
www.walker-process.com