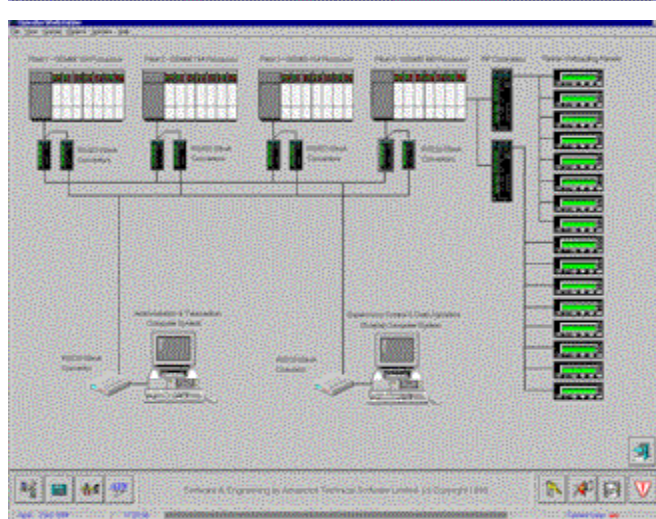


Bulk Handling Systems

Advanced Technical Software Ltd. is responsible for the plant wide control system for a Dutch subsidiary of a large European Multinational transport company.

The system consists of the management and import/export control of a storage facility consisting of single site operating four separate silo storage plants with a combined total of eighty load cells mounted 250 and 400 Tonne storage silos for both plastics and powder handling.

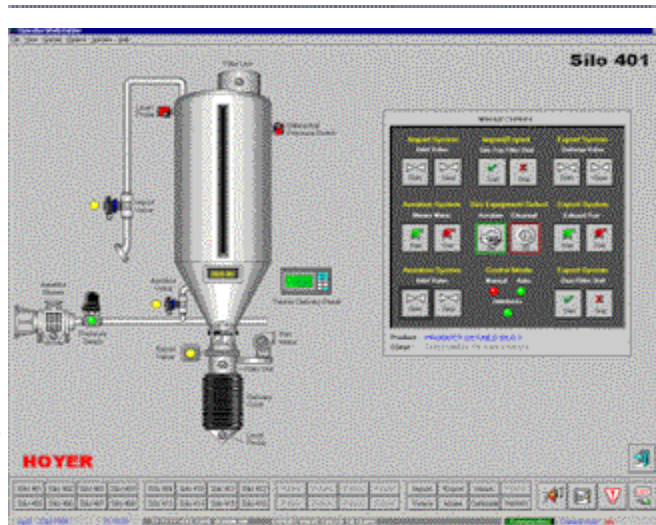
Three of the storage facilities are existing and maintained by Advanced Technical Software Limited and consist of GEM80 PLC systems with integrated Imagem colour graphics systems.



These are being integrated along with the new Plant 4 into a new plant-wide control system incorporating the latest SCADA system plus a bespoke Windows based silo administration system.

To maintain equipment compatibility as far as possible Plant 4 has been fitted with a GEM80-400 processor with a WorldFIP Industrial network for data transmission and gathering to operator displays at each of the 16 new silos.

The existing colour graphics systems are being replaced so that the whole site can be controlled and monitored from a single SCADA system with multi dropped connections to the four GEM80 PLC systems.

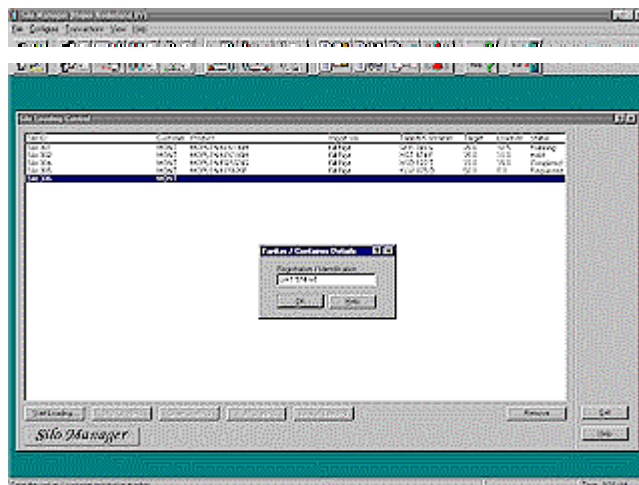


Material import/export from containers/tankers and bagging systems are made from this single system giving improved productivity and control/monitoring.

Also linked into the PLCs is a second connection from the new Administration computer system running Silo Manager, which allows full control of all transactions to be made from the main office complex.

The two systems can operate completely independently allowing uninterrupted production should a failure occur in either computer system and also allow individual plant control should any of the individual plant PLC's be out of commission.

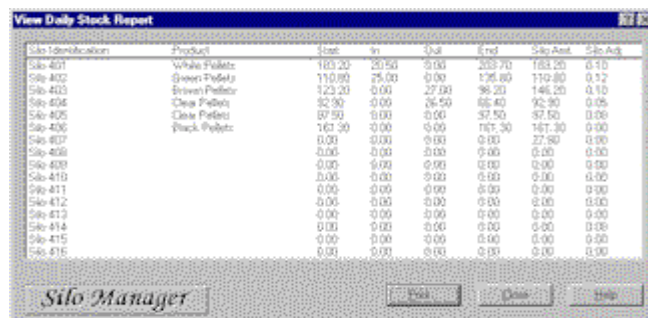
A future addition will be a link into the company AS400 system to allow transaction processing to be instigated from the company head office.



Silo Manager is a new standard product developed by ATS which allows the complete management for all import and export transactions for up to 128 vessels.

This particular implementation controls a total of 80 storage silos split across four separate plants and is integrated into the existing PLC systems.

Each individual silo can be configured for silo capacity, bulk density of material, import and export control methods etc.



The system also features full management information and reporting of every transaction and alarm to provide detailed information for Quality Assurance tracking.

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