

Meet the Expert



Sam is an expert in Oral Solid Dosage (OSD) manufacturing operations, including potent compound handling and continuous manufacturing. His international expertise includes the programming, design and qualification of pharmaceutical facilities ranging from clinical to full-scale production plants. He has successfully executed technically driven projects applying lean principles to optimize production capacity and efficiency.

His proven “Manufacturing Dynamics” approach drives true process architectural design and utilizes analysis tools which address process unit operations along with material movement. This approach includes several unique design tools tailored to the early stages of project development. These design aids include production capacity modeling and assessment, manufacturing flow analysis, manufacturing flow diagrams, process logic diagrams and environmental classification philosophy diagrams.

Sam’s particular focus is in cGMP manufacturing design, including process technology evaluation, capacity analysis, and cGMP environmental classification and operational analysis. He draws from his compliance and process experience to create and develop functionally compliant designs, integrating owner and regulatory requirements.

Recent project work includes leveraging single-use manufacturing technologies into multiproduct facilities; adapting equipment to process changes, capital investment restrictions and yearly operating cost allowances. Within the design phase, Sam enabled clients to achieve optimum efficiency and flexibility within their facilities.

Sam has presented at industry events and conferences on topics relating to facility design strategies, potent compound containment, continuous processing, trends in pharmaceutical regulatory issues, manufacturing dynamics, multiproduct facilities and high hazardous compound safety. He is currently the ISPE Co-Chairman of the Containment COP and has formerly been the Chairman for the ISPE Manufacturing Subcommittee and has been a Steering Committee Member for ISPE COP Sterile Products Processing.

In addition, Sam leads the IPS Technologies Tours, conducted during a major biopharmaceutical industry tradeshow featuring Oral Solid Dosage technologies. The Tour includes visits to leading suppliers to discuss new OSD technologies, innovation and new strategies.

Sam graduated from Clarkson University with Bachelor Degrees in Chemical Engineering and Interdisciplinary Engineering and Management.

Sam Halaby Oral Solid Dosage (OSD)

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Areas of Expertise

- Oral Solid Dosage (OSD)
- Advanced Aseptic Processing
- Biological Processing
- Manufacturing Operations
- Potent Compound Containment
- Continuous Manufacturing
- Process Architecture
- Multiproduct Facilities
- Production Optimization
- “Manufacturing Dynamics”
- Conceptual Design
- Strategic Planning

