

## Process Equipment Management Services (PEMS)

To Ensure Accurate Delivery of Integrated Process Systems for your Project

Process equipment accounts for approximately 25% of the TIC of a grassroots biopharm facility. Typical equipment lists for new facilities can exceed 1,000 line items and can include over 50 integrated equipment packages. As project managers know all too well, equipment deliveries drive the overall project schedule. The ability to ensure accurate delivery of process equipment is the #1 driver for the success of a project.



Process Equipment Management Services (PEMS) is a novel service offered by FW Biokinetics that is designed to ensure accurate delivery of integrated process systems. The implementation of PEMS guarantees that your equipment arrives on schedule, in accordance with specifications, successfully tested, within budget, and with documentation complete. PEMS directly addresses the largest risk factor on a project and greatly improves the overall project's probability of on-time completion.

PEMS leverages our experience as biopharm engineering specialists, former process module suppliers, and as validators to create a single-point of accountability to manage the delivery of critical process systems. Ours is an integrated approach to

the specification, procurement, delivery, testing, installation and qualification of process equipment. We utilize dedicated, highly experienced resources to facilitate process equipment delivery accuracy.

On a typical project, six or more different entities interface with equipment vendors without a single entity responsible for the complete and accurate delivery of the equipment. Multiple lines of communication and shared responsibility create confusion and inevitably lead to errors and delays.

The PEMS team leader fills the roles of vendor liaison, technical lead and expeditor. He lives with the delivery from design or procurement to completion of the PEMS scope. Core activities include vendor management, technical oversight, and Factory Acceptance Testing. He is the single point of responsibility for accurate delivery and provides rapid resolution of technical, commercial and scope issues thereby simplifying the owner's job and reducing the vendor's delivery time.

FW Biokinetics can estimate PEMS services from an equipment list. We will show you which portions of your process equipment

scope are most at risk for inaccurate deliveries and how PEMS can save you time, money and effort, and most importantly, how PEMS will mitigate the delivery risk to your project.

PEMS Class	1	2	3	Customized PEMS
Equipment Specification	X			
Procurement	X	X		
Vendor Management	X	X	X	
Technical Oversight	X	X	X	
FAT	X	X	X	
Installation Oversight	X	X		
Commissioning	X	X		
SAT and Qualification	X			
Life Cycle Management	?	?	?	

To learn more about how PEMS can ensure accurate delivery of integrated process systems for your next project and reduce your procurement risk, contact FW Biokinetics at [info@fwbiok.com](mailto:info@fwbiok.com).