

Integrated Facility Systems™ (IFS)

CASE STUDY • STADIUMS/ARENAS



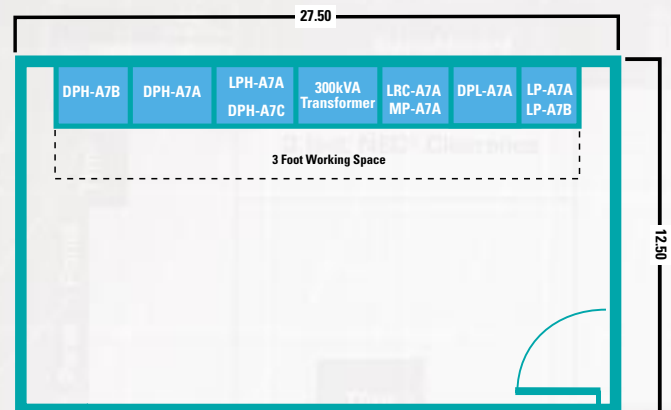
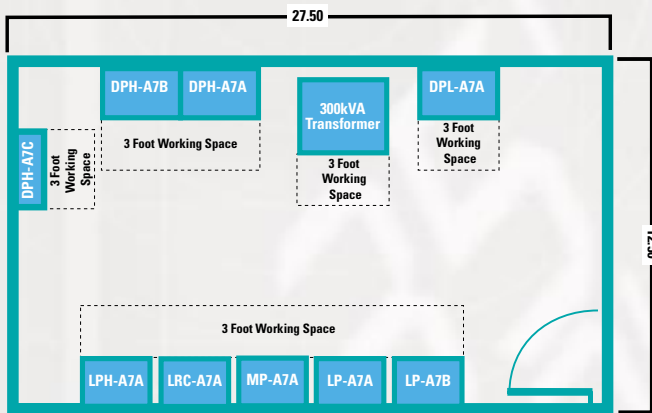
Abstract: A major professional sports franchise purchased Eaton Corporation's space saving Cutler-Hammer Integrated Facility Systems (IFS™) for their 66,000 seat stadium. By installing IFS, as opposed to conventional electrical room equipment, the building was able to take advantage of approximately a 13% reduction in electrical room floor space while the contractor was able to save over 5,300 hours of labor time.

Project Type: New, Large Construction
Construction Cycle Time: 2 Years
IFS Line-ups: 52
Scope: Replaced Traditional Distribution and Control Package consisting of 363 Panelboards, 66 Transformers, and associated pipe, wire, and fittings.



Conventional Design

IFS™ Design



For Illustration Purposes Only.

	Before IFS	After IFS	IFS™ Switchboard
Floor Space Savings			Space Savings
Room Total Floor Space (Sq. Ft.)	343.75	343.75	
Room Total Floor Space (Cu. Ft.)	4,125	4,125	
Dedicated and Working Space (Sq. Ft.)	106.64	93.5	13.14 Sq. Ft./12.3%
Dedicated and Working Space (Cu. Ft.)	1279.87	1,122	157.87 Cu. Ft./12.3%
Labor Cost and Material Savings			Cost Savings
Estimated Labor Cost (Per Room)	\$13,386	\$595	\$12,791/96%
Total Installed Cost (Material and Labor)	\$29,986	\$25,189	\$4,797/16%
Individual Installed Pieces (Per Room)	284 Pieces	3 Pieces	281 Pieces/99%
Estimated Installation Time (Hrs.)	174 Hours	12 Hours	162 Hours
Total Project Savings for 33 Electrical Closets			Total Savings
Labor Savings			\$422,103
Total Installed Cost Savings (Material and Labor)			\$158,301
Reduction in Pieces Handled			9,273 Pieces
Total Hours Saved			5,346 Hours
Dedicated and Working Space (Sq. Ft.)			433.62 Sq. Ft.
Dedicated and Working Space (Cu. Ft.)			5,209.71 Cu. Ft.