Facility Planning/Plant Layout/Interior Space Planning, Page 3

So what next? The next day you schedule a meeting with the PM and try to get answers to your question. Being a rather territorial and borderline paranoid guy, he asks why you need to know so much information. You reassure him that your job is to make this new installation go smoothly, thus making them both look good. Not having the benefit of a college education from a fine regional State university, he gives you his best "oh yeah" look, and the discussion moves on. So you start through your list of needed information, you generate a whole new list of questions.

The issue of size seems to be an easy one. You need to know: 1) where is it going?, 2) will it fit, and 3) how are we going to get it there? You need to know how much space this thing is going to take up. How wide, long and tall is it? How much does it weigh? If it is going into an existing space, what will be displaced? These same questions will need to be asked for any relocated equipment.

And what about any other support that this equipment will need?

- What are the electrical requirements such as, how much amperage will it draw and what voltage does it use?
- Does it have special lighting requirements for the working area?
- What are the cooling requirements, will it require special cooling, does it generate residual heat?
- Does it require natural gas, propane, oxygen or some other plant gas?
- Does it require water: how much, what flow, what type (distilled, deionized, etc.)?
- What happens to the waste water: can it go directly into the sanitary sewer lines, does it need to go through an oil separator, does it need any pre-treatment, or is it considered a hazardous waste with all of its exciting requirements?
- Does it need air/pneumatics: what pressure, what volume, how clean?
- Any steam required: high pressure/low pressure, what temperature?
- Does it require any shielding: for arcing/flashing or noise protection?
- Does it have any environmental concerns: special humidity requirements, dust-free (clean room) environment?
- Does is have special computer or networking requirements?