

ment. Having the SPD in the LL also allows for easier expansion in the future. And as history had shown us, expansion would be needed.

Putting ideas on paper

The next step was to actually design the department. We took our wish list to the architects about four to five years before the move. After a few iterations the costs were plugged in, the gasping began, and the budget cutting started. The budget was trimmed until we arrived at a figure everyone could live with and we could afford. My suggestion – wish big to begin with so you have more things to pare down. Having just gone through it, I can tell you a lot of things changed in those five years. When we started this phase some of the newer reprocessing technology was not even available. Once we began working with architect's drawings, there was some opportunity for changes but they got fewer and fewer as the phases continued.

The SPD footprint was one of the first requirements to establish. One thing that came out of our early meetings with the third-party offsite processing company was their recommendation that we needed an additional 25% more space than what the architects originally slated for us. Yes, room for growth and to design the department with a linear workflow that made sense.

What goes where?

Ok, now we had the department location, the elevators, and the footprint. Next came the time when we needed to decide what went where. The architects had us take Post-it® Notes representing the approximate size of areas such as instrument storage, cart washers, etc., and place them where they made the most sense. (See figure #1 and #2)

During this process we relied heavily on the American National Standards Institute, (ANSI) and the Association for the Advancement of Medical Instrumentation (AAMI) standards to help us with these design considerations. The AAMI design considerations section offers guiding principles for the design and maintenance of the workplace to facilitate effective and efficient processing and personnel safety, diminish environmental contamination, and preserve the sterility of processed items.¹



Figure 3 - OR pass through

The AAMI standards were very instrumental in our work area design and functional work flow, as well as the physical facilities space requirements, mechanical systems, electrical systems, and other area requirements or restrictions. At that time we had to look at many different AAMI documents. Since then, however, the majority of the recommendations have been combined into one document, ANSI/AAMI ST79:2006, *Comprehensive guide to steam sterilization and sterility assurance in health care facilities*.²

Satellite decontamination

AAMI states: "Whenever possible, centralized processing (i.e., decontamination, preparation and packaging, and sterilization processing in one department) is encouraged. Sterilization is a complex process requiring environmental controls (e.g., controlled air changes, exhaust ventilation, temperature, and humidity, as recommended in 3.3); appropriate equipment and supplies; adequate space; qualified, competent personnel who are provided with ongoing training and personal protective equipment (PPE); and monitoring for quality assurance. From both safety and cost-effectiveness standpoints, centralizing these functions is preferred to replicating them in several areas of the healthcare facility."²

We understood what AAMI was recommending; nevertheless, we decided to design a small decontamination area for each of the two sets of sterile cores in the OR. These decontamination areas were designed solely for the emergent need of items

and to discourage staff from using non-decontamination areas to wash an item that had been dropped. These decontamination areas were designed with pass-through windows and pass-through sterilizers. To address the need for qualified staff, a sterile processing instru-

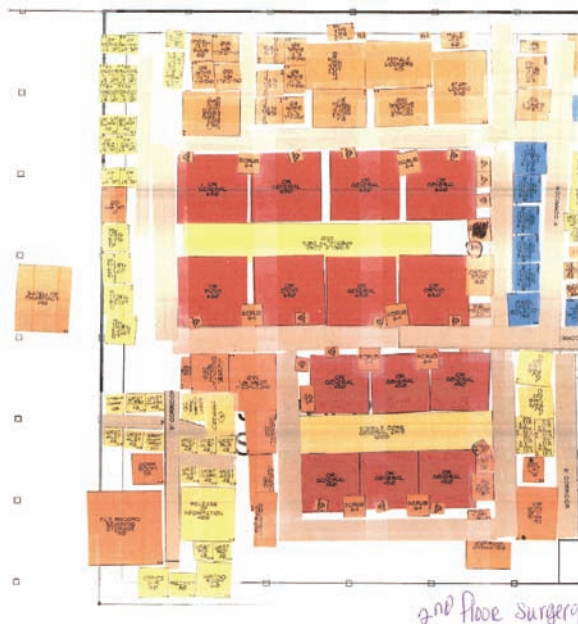


Figure 2 - Post-it Note plan

ment technician was assigned to this area. They are immediately available via phone to help process items in these satellite decontamination areas. (See figure #3)

How much equipment?

Making decisions on the number and the type of equipment was no small task. Because the workload will more than likely increase in the next few years, we needed to plan for this volume growth. One thing we did know was that we did not want to be limited by only having "one" of anything. As an example, if we had decided on one large cart washer and something happened to it we would lose our efficiency and create a bottleneck. Therefore, we elected to go with two smaller cart washers that are independent from each other.

Explore your options!

Do not just limit yourself to one or two vendors. Explore your options. Make inquiries about alternative technologies or manufacturers in addition to your preferred vendors.

- Work with your Materials Management Department to see what is available;
- Ask your colleagues for their opinions;
- Log onto "list serves" such as:
 - The Association of periOperative Nurses (AORN) MemberTalk at www.aorn.org
 - AORN's Specialty Assembly for Sterile Processing and Materials Management at <http://>

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- communities.aorn.org/COP, or
- The International Association of Healthcare Central Service Materiel Management (IAHCSMM) at www.iahcsmm.org;
 - Scour the healthcare trade journals for equipment and ideas, and;
 - Attend trade shows and vendor fairs, locally and nationally, featuring OR and SPD equipment.

Do site visits

I cannot stress enough the importance of doing site visits. Not just one or two locations. Time needs to be invested in this process depending on the amount of new equipment you will be purchasing. Go and see the actual equipment in use. Assess every piece of equipment. Talk to colleagues who were involved in the decision making process, as well as to the staff who use each piece of equipment. Ask about equipment reliability, capacity, preventative maintenance, training, and most of all customer service from the front-line equipment technicians.

When doing a site visit, also look at things like instrument work stations and wrap tables. Ask what works well and what they would change if they had to do it over again. These suggestions and ideas will be invaluable in making future decisions.

Prepare for new technology

It is also very important to do your homework up front. Research what is currently available and what the trends are for future development of processing equipment. There is so much new technology that is being developed; make sure your new facility has the latest and greatest. The biggest consideration with this is the infrastructure preparation such as electrical power, data networking, and plumbing capabilities. Now is the time to think of these things. The last thing needed after moving into your new facility is to require additional construction to accommodate new technology.

Be invested

Get ready for a life full of meetings. Developing and designing a new or renovated department takes a lot of planning. This means lots of meetings. My advice: do not miss any of the meetings where your department will be discussed. There will be times when you have to stand up for what you need. This is where good negotiation skills come into play. If you are prepared with the knowledge gained from earlier research such as the AAMI design consider-

ations sections discussed above, infection control procedures, workflow needs, and equipment requirements, you can better argue your point.

If you do miss a meeting, decisions will likely be made for you and you will have to live with them. The construction planning process is very precise, sequential, and time dependent. Once some decisions are made, it is frequently too late to go back and undo them.

Storage, office and staff areas

Besides the actual work area, make sure you have adequate storage, office space, locker rooms, and a break room away from the work area. Think about the future and growth when designing these areas. Your storage area needs for today will probably double in five years, so plan ahead. Future construction project/opportunities might be years away. For new construction, plan for future growth when deciding the location of SPD. AAMI has an example figure of a functional work area for a sterile processing department on page 16 (see Figure 4).²

Involve staff

Staff should be involved in the process as much as possible from the very beginning. Depending on the duration of the construction project, staff input is invaluable. The front line workers have different viewpoints and ideas which may help you see things you may have missed. As with anything, the more staff can be involved with the planning the more they feel they are a part of the process and will more readily buy into any changes. Having one staff member as the move coordinator also helped us with the transition. They attended meetings, gathered information, helped in design, communicated with their peers, and oriented other staff members.

Planning for the emotions of the move

It is a big change when you move into a new department or space. Be prepared for some reactions to the change, both positive and negative. Staff will most likely miss some of the old while embracing some of the new. It is important to celebrate both aspects. When we left the old hospital we asked the staff to say good bye. We asked them to list what they would miss on large

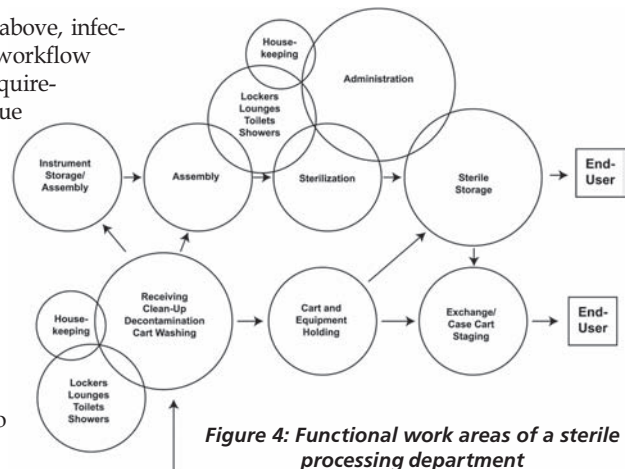


Figure 4: Functional work areas of a sterile processing department

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poster boards and then had a moment of silence for each item. When completely moved into the new hospital we did the same thing to say hello and list what they were looking forward to in the new location. This process seemed to help ease the transition from old to new.

Orientation

Orientation to the new space and education on the new equipment is a must. Don't skimp on these activities. Try to do them before the actual move-in day. The more the staff knows ahead of time, the smoother the move-in day will go. Work with the vendors of the new equipment to set up inservices in small groups. Make sure the staff is ready and understands all of the new equipment by having them perform demonstrations. This will pay off in the long run.

Lessons learned

Reflecting back on this major undertaking, there were many lessons we took away. Here are some of the ones to remember:

- There is never enough space; plan for growth,
- Plan ahead for new technology changes,
- Design for smooth workflow
- Avoid equipment bottlenecks
- Do homework; explore new technologies and vendors,
- Do multiple site visits,
- Invest in the time to attend all meetings; never miss or send someone in your place
- Don't forget storage space, office space locker room space, break room space
- Involve staff from the beginning; assign a move coordinator
- Express emotions; say goodbye and hello,
- Training and orientation before hand is critical.

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These lessons can be very helpful whether you are building a brand new site, expanding an existing space or just remodeling your department. If you are not currently in any of these construction phases; just wait, I am sure you will be soon! **HPN**

Ordering Information

AAMI

ANSI/AAMI ST79:2006, *Comprehensive guide to steam sterilization and sterility assurance in health care facilities*

Order code: ST79 or ST79-PDF

Available in an attractive binder featuring sturdy metal rings, ledger-weight pages, and a laminated tab for each section for easy navigation. AAMI will issue revised pages that can be substituted into the binder when changes are made.

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2. Fax: 703-525-1424

3. Mail: AAMI, Customer Service Center, 1100 N. Glebe Road, Suite 220, Arlington, VA 22201-5762

References

1. The Association for the Advancement of Medical Instrumentation. Steam sterilization and sterility assurance in health care facilities. ANSI/AAMI ST46:2002.

2. The Association for the Advancement of Medical Instrumentation. Comprehensive guide to steam sterilization and sterility assurance in health care facilities. ANSI/AAMI ST79:2006.



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Taking SPD to a "whole new place":

Designing a new sterile processing department

Circle the one correct answer:

- The best place to locate a Sterile Processing Department is in the middle of the Operating Room.**
A. True
B. False
- Planning for infrastructure for future technology is very important.**
A. True
B. False
- AAMI stands for the American Association for Medicine and Instruments.**
A. True
B. False
- AAMI states "From both safety and cost-effectiveness standpoints processing functions should be centralized whenever possible".**
A. True
B. False
- The department workload today will more than likely be increased in a few years.**
A. True
B. False
- Doing a site visit to one location is usually enough.**
A. True
B. False
- Developing and designing a new or renovated department takes a lot of planning and time investment.**
A. True
B. False
- You should think about future growth in all areas including work areas, storage, office space, locker rooms and break rooms.**
A. True
B. False
- It is best not to involve the front line staff until just before the move.**
A. True
B. False
- It is important to celebrate by saying goodbye to your old space and hello to your new "home".**
A. True
B. False

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