International Nuclear Services

Radioactive Packaging Spares Management

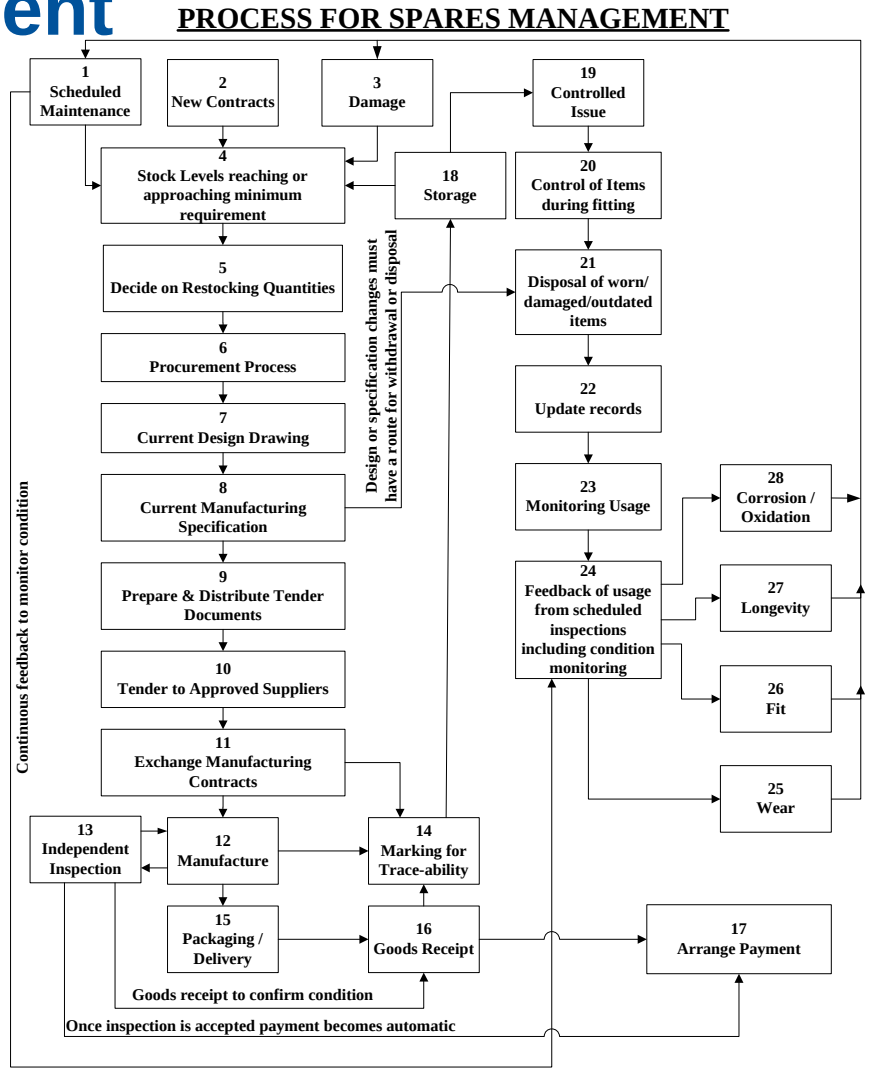
Control of Spares Procurement, Issue and Use by International Nuclear Services Ltd

PATRAM Conference Oct 2010

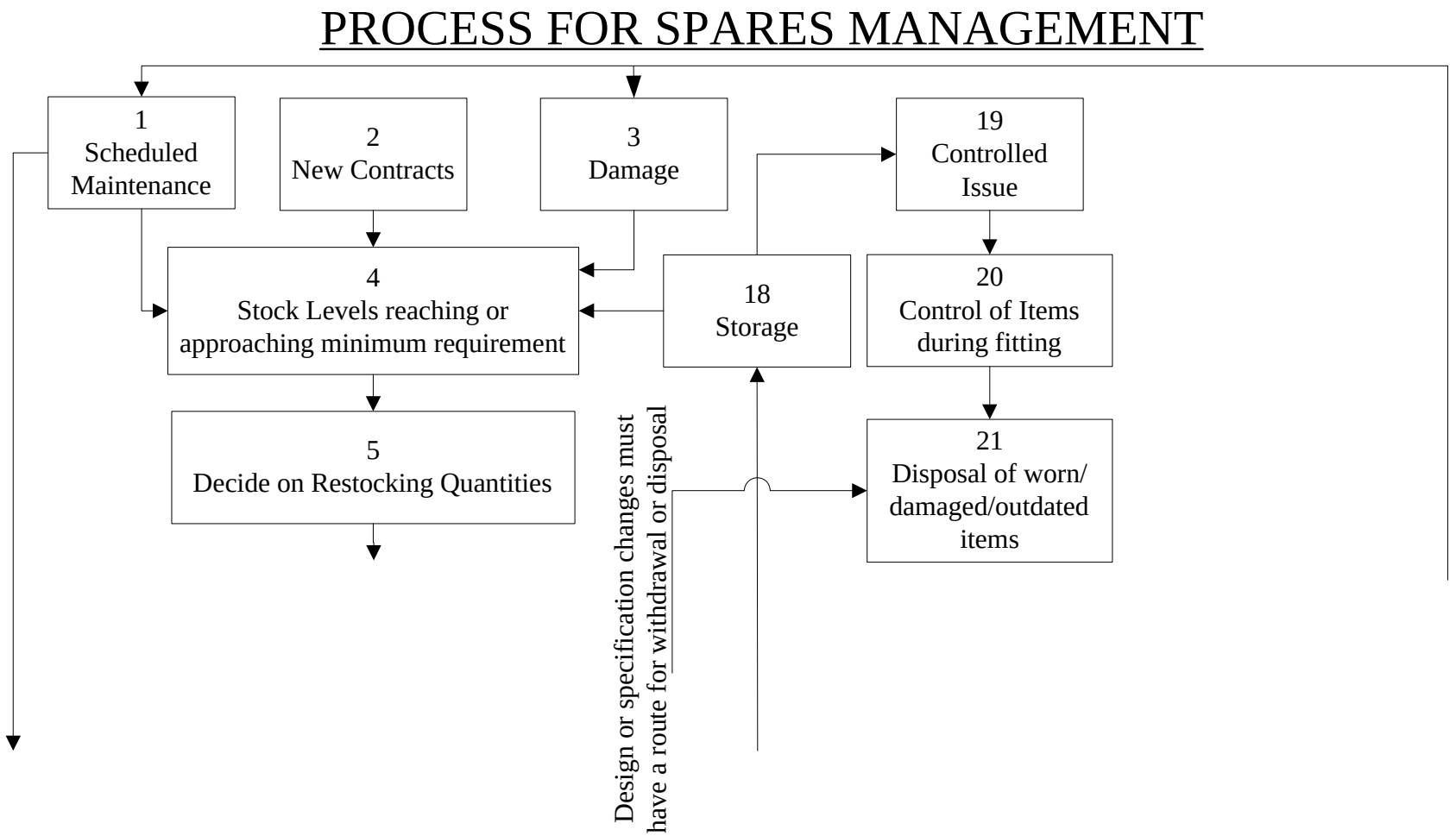
International Nuclear Services

Process for Spares Management

Although the process appears complicated, in general it flows in a loop so that it is possible to continually monitor and thus ‘control’ the spares.

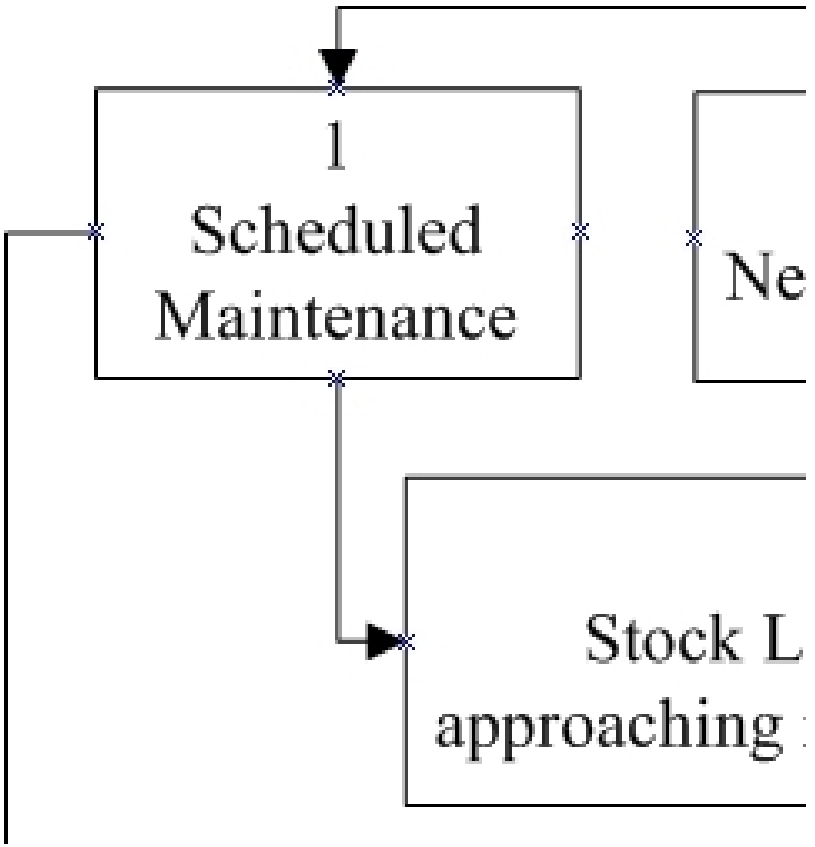


Process for Spares Management



PROCESS FOR SPARES MANAGEMENT

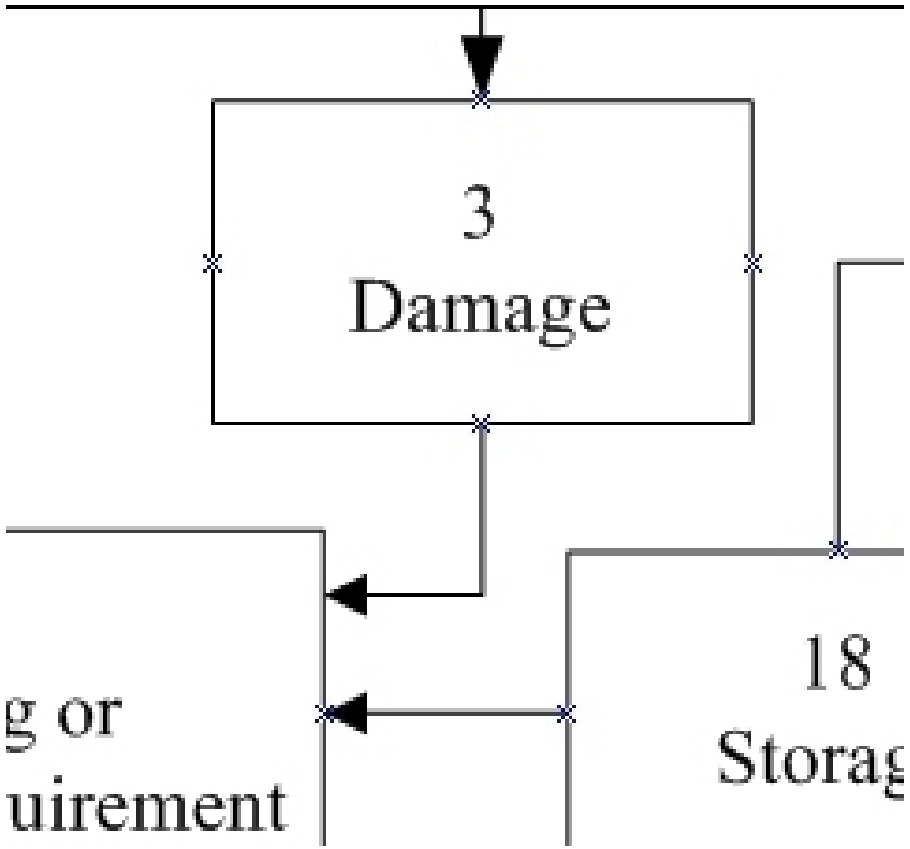
1. **Scheduled Maintenance**
   - Turnround
     - Every Trip
   - Annual
   - Major
   - Periodic
     - Can vary with time or usage



PROCESS FOR SPARES MANAGEMENT

3. **Damage**

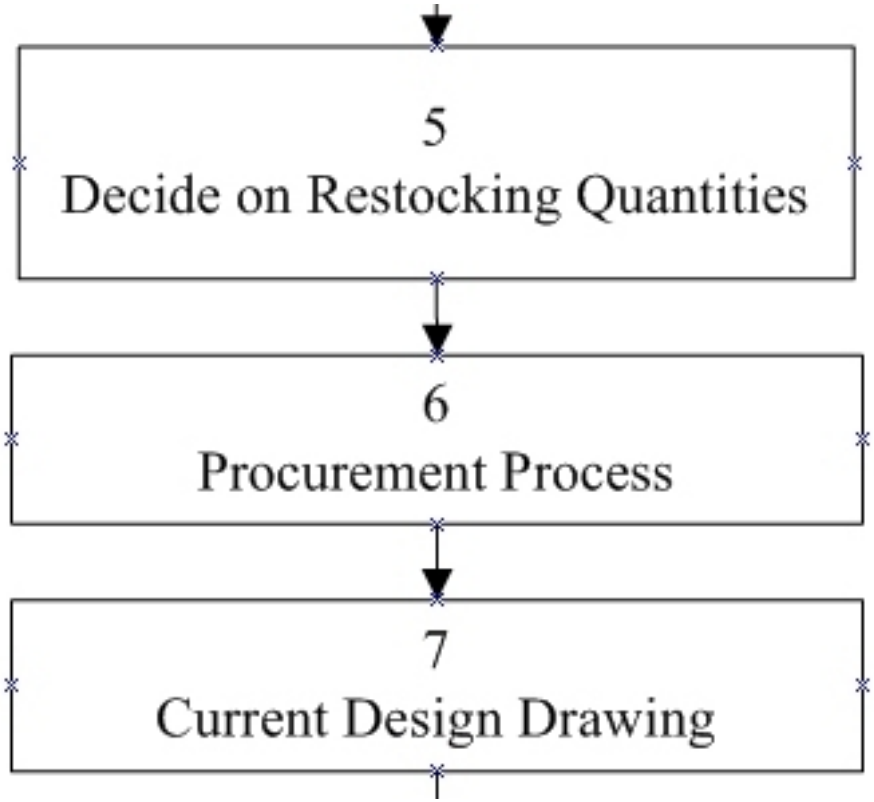
Damage is something that despite all efforts to avoid can happen, so for replaceable components it's important to build in a spares contingency.



PROCESS FOR SPARES MANAGEMENT

5. Decide on Restocking Quantities

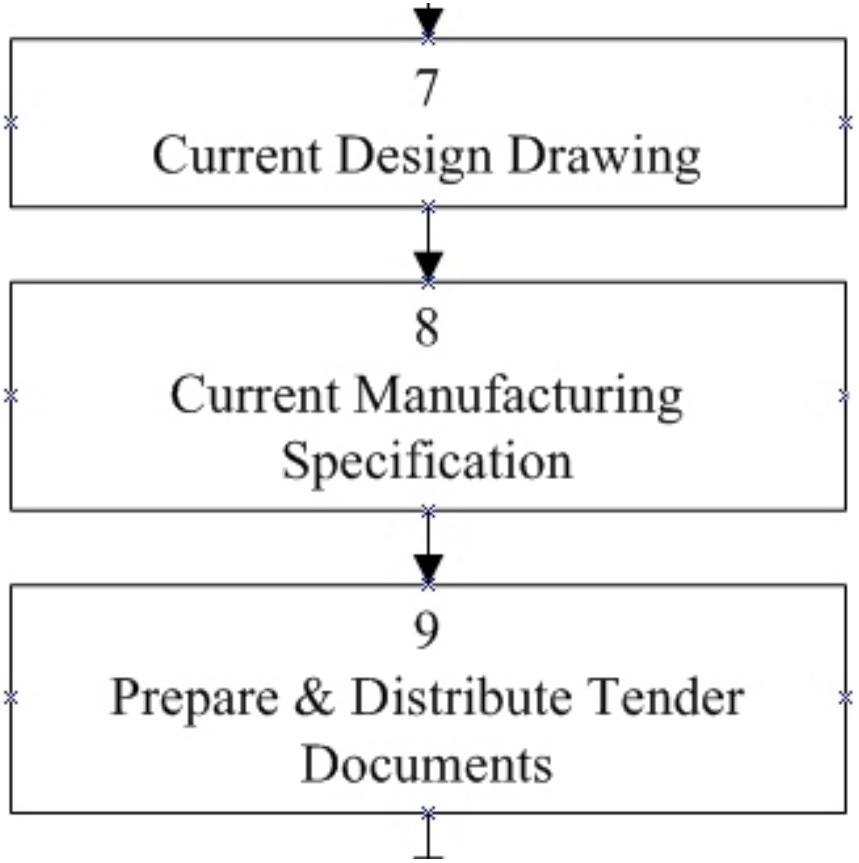
A balance between immediate need and sensible order quantities need to be determined, as well as new contracts which have to be accounted for.



PROCESS FOR SPARES MANAGEMENT

6. **Procurement**

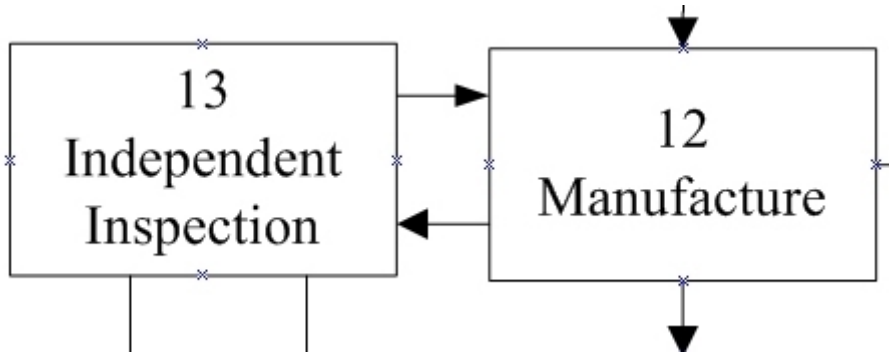
Procurement is probably one of the most important areas of spares management since getting this wrong will have a major impact on operations.



PROCESS FOR SPARES MANAGEMENT

13. **Independent Inspection**

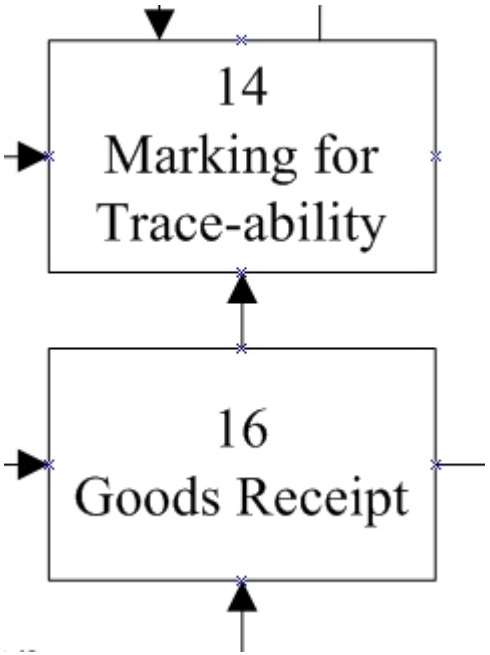
Many items used on radioactive packages require some form of inspection independent of the supplier to ensure the goods meet all the requirements.



PROCESS FOR SPARES MANAGEMENT

14. **Marking for Trace-ability**

Trace-ability of spares is important for radioactive packages. This ensures that throughout an items life cycle its provenance is all the time known.



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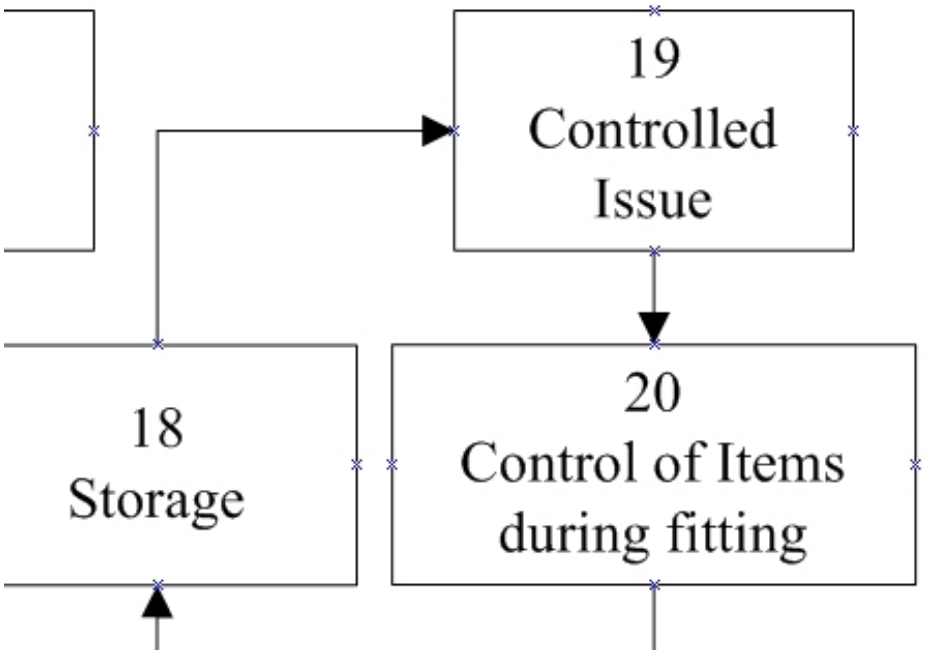
18. **Storage**

19. **Controlled Issue**

20. **Control of Items during fitting**

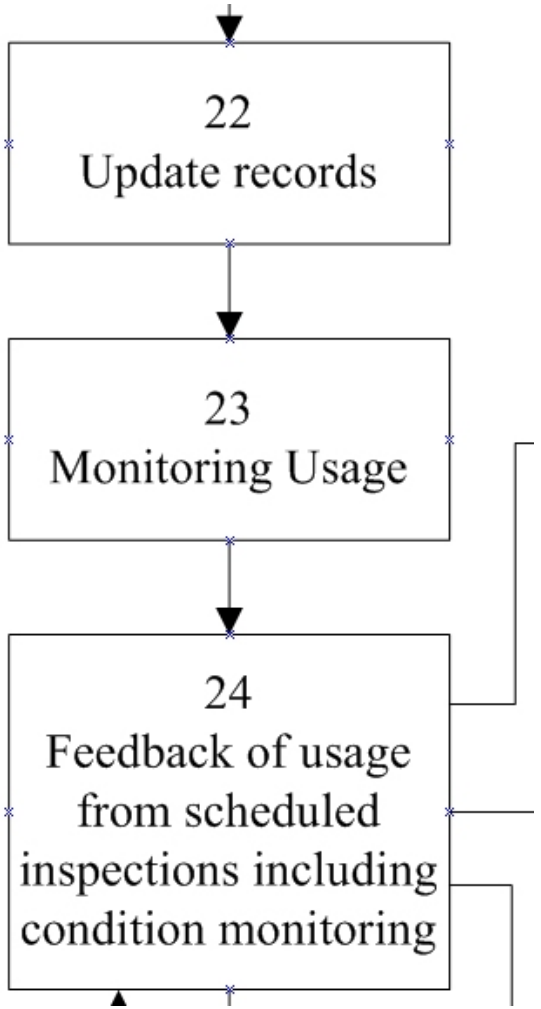


PROCESS FOR SPARES MANAGEMENT

22. **Update Records**

23. **Monitoring Usage**

24. **Feedback of usage…….**



Conclusion

- Spare parts are a core part of Operations
- Their procurement storage and control of issue is paramount in maintaining a radioactive packagings compliance with its Design Approval
- INS ensure that all regulatory requirements are complied with by careful attention to detail and procedure and primarily by involving its Flask Operations Engineers all through the Process.