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Page: 1



Item	Facility	Type	Sub	Document Number / Title	Sheet	Revision	Doc Date	Copy #	Media	Copies
* 0001	MP	PROC	HP	RPM 2.3.4 INSPECTION MAINTENANCE PROCESS FOR RESPIRATORY PROTECTION EQUIPMENT		002 03			P	01

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02/26/08  
Approval Date

02/27/08  
Effective Date

### Procedure Action Request

Document No.: RPM 2.3.4	Writer: Jean B. Olsen Initiator: Liesl Germann	Rev. No. 002	Minor Rev. 03
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Title: Inspection and Maintenance Process for Respiratory Protection Equipment

For New Documents: Document is QA  DH Title: (Include distribution information on page 2)

Revision     Minor Revision     Cleanup Revision     Biennial Review  
 Void (Cancel)     Suspend (Do Not Use)     Expire     Superseded By: \_\_\_\_\_

Comments:  Administrative Correction FLS: *[Signature]*  
 Added date to reference document

Associated ARs

Reviews	Print	Sign	Date	Department
<input type="checkbox"/>				
WC 9 Att 3 Req. <input type="checkbox"/> Yes <input type="checkbox"/> No				
Licensing Basis / RCD (50.59/72.48 Screen Req. <input type="checkbox"/> Yes <input type="checkbox"/> No)				
Tech Independent				

Validation	<input type="checkbox"/> None	<input type="checkbox"/> Field - Use MP-05-DC-SAP01-004	<input type="checkbox"/> Simulated Performance - Use MP-05-DC-SAP01-004	<input type="checkbox"/> Table Top and Walk-through	<input type="checkbox"/> Comparison
(minimum of two)		Print	Sign	Date	Dept
Coordinator					
Member					

Training:  None     Nuclear Training     Briefing     Familiarization

<input type="checkbox"/> <b>SQR Review and Approval</b> Approval <input type="checkbox"/> Disapproval <input type="checkbox"/> _____ (1) SQR Sign/Date _____ (2) Department Head Approval Sign	<input type="checkbox"/> <b>FSRC Review and Approval</b> N/A (1) Department Head Sign/Date _____ (2) FSRC Meeting Number _____ (3) FSRC Approval Sign	<input type="checkbox"/> <b>Department Head Review and Approval</b> N/A (1) Department Head Approval Sign _____
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Approval Date: 08/03/09      Effective Date: 08/06/09      WC 9 database  Updated If Req.



## Inspection and Maintenance Process for Respiratory Protection Equipment

RPM 2.3.4

Rev. 002-03

This procedure establishes a quality assurance program for respiratory protection equipment.

**S**TOP

**T**HINK

**A**CT

**R**EVIEW

Approval Date: 08/03/09

Effective Date: 08/06/09

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## Inspection and Maintenance Process for Respiratory Protection Equipment

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## 1. INSTRUCTIONS

By performing inspections and maintenance on respiratory protection equipment, Millstone Station will ensure operability of its respiratory protection equipment. This ensures personnel protection against airborne contaminants when using respiratory protection equipment correctly.

### 1.1 **Inspection and Maintenance Frequency Flowchart and Table Update**

1.1.1 WHEN any of the following conditions occur, Go To step 1.1.2:

- Manufacturer instructions are revised
- Government regulations are revised
- Historical data dictates a review
- New types of equipment are obtained

1.1.2 Refer To Attachment 1 and **PERFORM** the following:

- a. **REVIEW** Attachment 1 for affected flowchart or table.
- b. **ENSURE** inspection and maintenance intervals are correct as specified in the following guidelines:
  - Manufacturer instructions
  - Government regulations
  - Historical data
- c. **ENSURE** routine inspections and maintenance are performed at regular, scheduled intervals.
- d. **UPDATE** affected portions of Attachment 1 as required.



## 1.2 Inspection and Maintenance Performance

1.2.1 DETERMINE from the following list the type of equipment to be inspected:

- Full Facepiece or Half Mask Respirator
- Powered Air–Purifying Respirator Units
- Hip–Aire Breathing Apparatus
- Scott Self–Contained Breathing Apparatus
- Abrasive Blasting Respirator Assembly
- Bubblehoods or TYVEK Hoods – Air Supplied or Powered Air Purifying
- Filter Cartridges and Canisters
- Breathing Tubes, Air Lines, Air Supply Hoses, Duo–Flow Adapters

1.2.2 IF equipment being inspected is *not* listed in step 1.2.1, CONTACT Health Physics Supervision.

1.2.3 IF equipment is one of the following, DETERMINE if equipment status is in–service or stored:

- Full Facepiece or Half Mask Respirator
- Powered Air–Purifying Units

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1.2.4 Refer To Attachment 1 and the following list and SELECT flowchart or table that applies to equipment type and status:

- Flowchart 1, “MSA Full Facepiece or Half Mask Respirator”
- Flowchart 2, “MSA Powered Air–Purifying Respirator Units”
- Flowchart 3, “MSA Hip–Aire Breathing Apparatus”
- Flowchart 4, “Scott Self–Contained Breathing Apparatus”
- Flowchart 5, “Bullard Abrasive Blasting Respirator Assembly”
- Table – 1, “Bubblehoods or TYVEK Hoods – Air Supplied or Powered Air Purifying”
- Table – 2, “Filter Cartridges and Canisters”

1.2.5 OBTAIN and REVIEW equipment history file record.

1.2.6 Based on the following, SELECT from applicable flowchart or table the activity to be performed:

- Previous activities documented on RPM 2.3.5–001, “Equipment History Record.”
- Past equipment use
- Future equipment use

1.2.7 ASSIGN personnel to perform required activity.

1.2.8 MONITOR activity performance and ENSURE all required activities are performed.

1.2.9 DOCUMENT activities performed on RPM 2.3.5–001, “Equipment History Record.”

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2. REFERENCES

- 2.1 10CFR20, "Standards for Protection Against Radiation"
- 2.2 29CFR1910, "Occupational Safety and Health Standards"
- 2.3 NUREG 0041, "Manual of Respiratory Protection Against Airborne Radioactive Materials"
- 2.4 Regulatory Guide 8.15, "Acceptable Programs for Respiratory Protection"
- 2.5 ANSI Z88.2-1992, "American National Standard for Respiratory Protection"
- 2.6 RPM 2.3.5, "Inspection and Inventory of Respiratory Protection Equipment" | ①
- 2.7 RPM 2.3.5-001, "Equipment History Record" | ①
- 2.8 Serial No. 08-0287 Dominion Letter, "Request for Authorization for Use of Delta Protection Mururoa Blu Single Use Suits," from J. Alan Price, Site Vice President - Millstone to U.S. Nuclear Regulatory Commission, dated Jun 20, 2008 | ②  
| ③
- 2.9 Serial No. 08-0612 NRC Letter, "Millstone Power Station, Units Nos. 1, 2 and 3 - Request for Authorization for Use of Delta Protection Mururoa Blu Single Use Suits (TAC nos. J00287, MD9313 and MD9314)," from John B. Hickman to Mr. Christian, dated September 25, 2008 | ②

3. COMMITMENTS

N/A

4. SUMMARY OF CHANGES

**Summary of Changes, Rev. 002-02**

- 4.1 Reference 2.8, Serial No. 08-0287 NRC Letter, from J. Alan Price was corrected to add the date the letter was sent from Millstone to the NRC. This administrative correction is correction action to SAA004583.

**Summary of Changes, Rev. 002-02**

- 4.2 Added Delta Suit option to Attachment 1. This is corrective action to AR 0800014-55.

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### Summary of Changes, Rev. 002-01

- 4.3 Added RPM 2.3.5 to References. This is corrective action to CR-04-04368.
- 4.4 Deleted RPM 2.3.5-002, which was cancelled.
- 4.5 Updated nomenclature of forms.

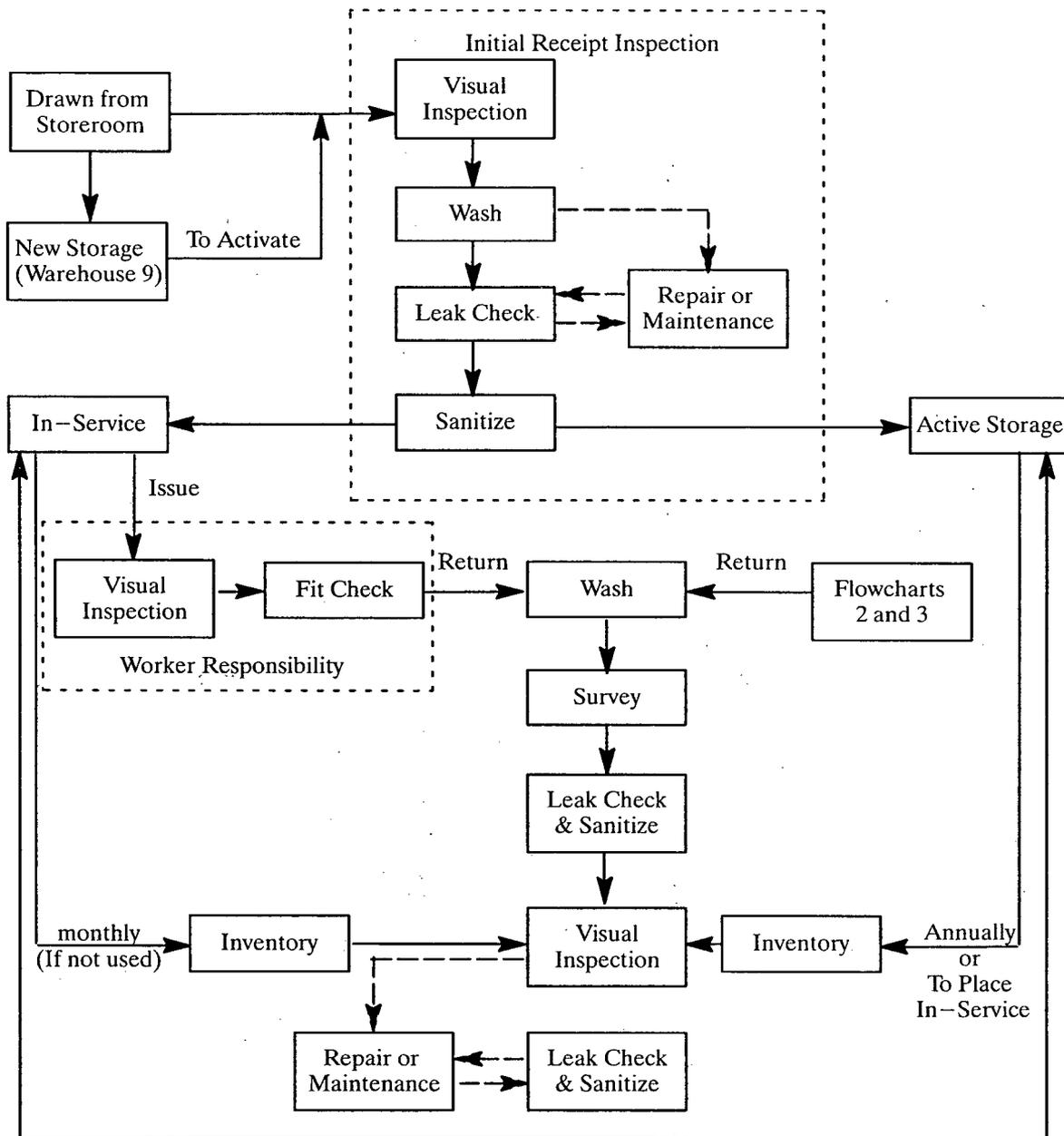
### Summary of Changes, Rev. 002

- 4.6 Changes in Attachment 1:
  - 4.6.1 Changed Flowchart Number 1 In-Service Inventory from quarterly to monthly and reformatted steps to comply with 29CFR1910.
  - 4.6.2 Deleted time frame for Hydrostatic Test from Flowchart Number 3. This test is dependent on cylinder type and is discussed in RPM 2.3.5.
  - 4.6.3 Deleted "(Posichek)" from "Functional Check (Posichek)" in Flowcharts Number 1, 3 and 4.
  - 4.6.4 Changed titles of cylinders in Flowchart Number 4 to distinguish composite cylinders and fiberglass wrapped cylinders as these two types of cylinders have different inspection criteria.
  - 4.6.5 Deleted Table -3, "Breathing Tubes, Air Lines, and Air Supply Hoses," because these items are all inspected prior to use and it is unnecessary to perform the inspection twice.
- 4.7 Deleted the words "Quality Assurance Program" from procedure title as this gives the wrong impression of the procedure's objective. It was replaced with the more accurate title "Inspection and Maintenance Process..."
- 4.8 Added Basis information that changes or revisions to this procedure must be processed through the Emergency Planning Services Department to complete a reduced effectiveness review in accordance with 10CFR50.54(q).



**Attachment 1**  
**Inspection and Maintenance Frequency Flowcharts and Tables**  
 (Sheet 1 of 6)

**Flowchart Number 1 – MSA Full Facepiece or Half Mask Respirator**



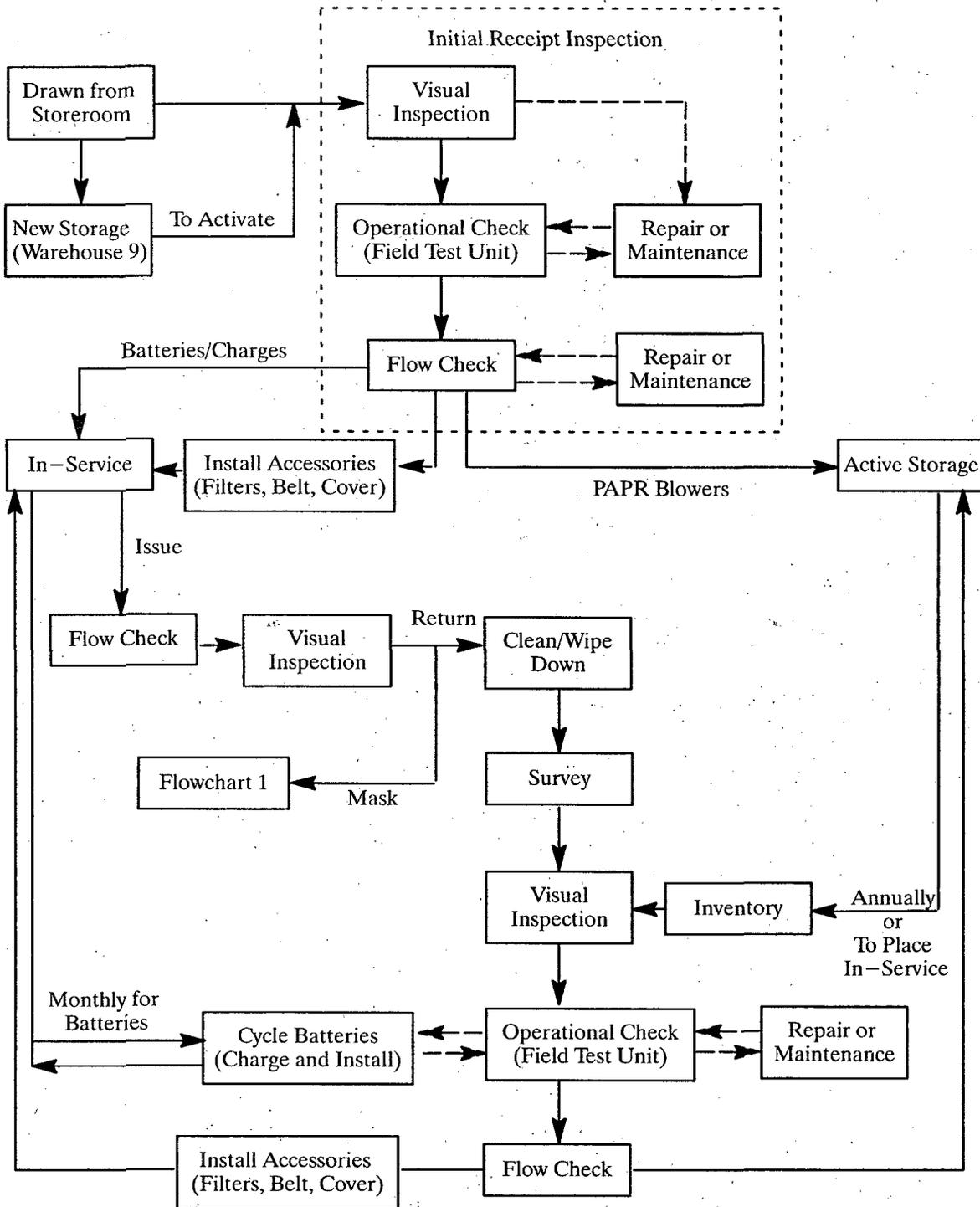
On a periodic basis, respirators should be cycled between active storage and in-service.

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**Attachment 1**  
**Inspection and Maintenance Frequency Flowcharts and Tables**  
 (Sheet 2 of 6)

**Flowchart Number 2 – MSA Powered Air-Purifying Respirators Units**



On a periodic basis, PAPR blowers should be cycled between active storage and in-service.

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STOP THINK ACT REVIEW

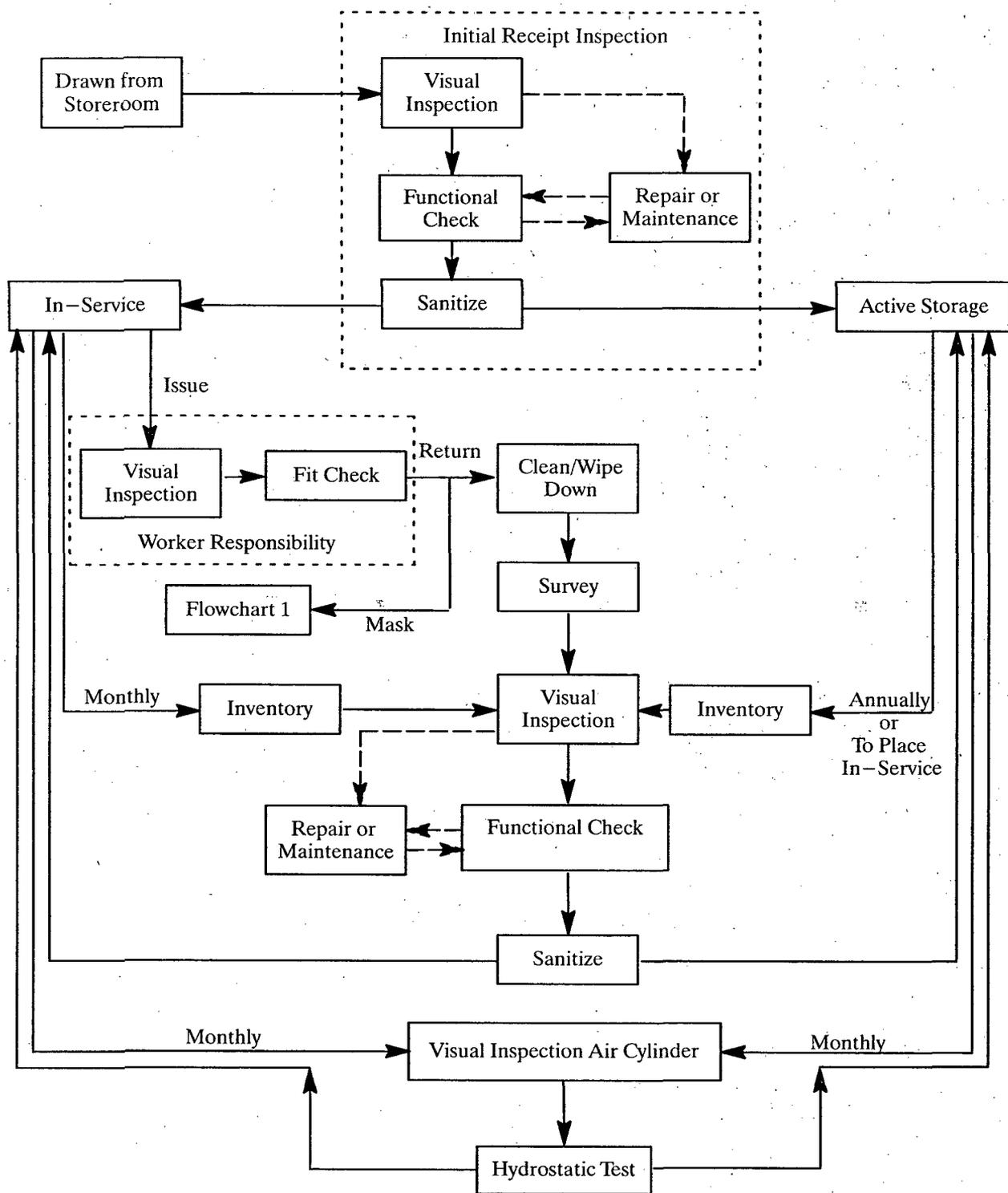
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# Attachment 1

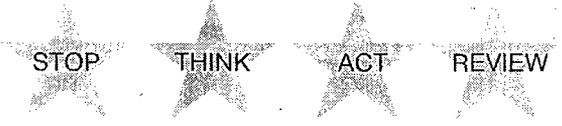
## Inspection and Maintenance Frequency Flowcharts and Tables

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### Flowchart Number 3 – MSA Hip–Aire Breathing Apparatus

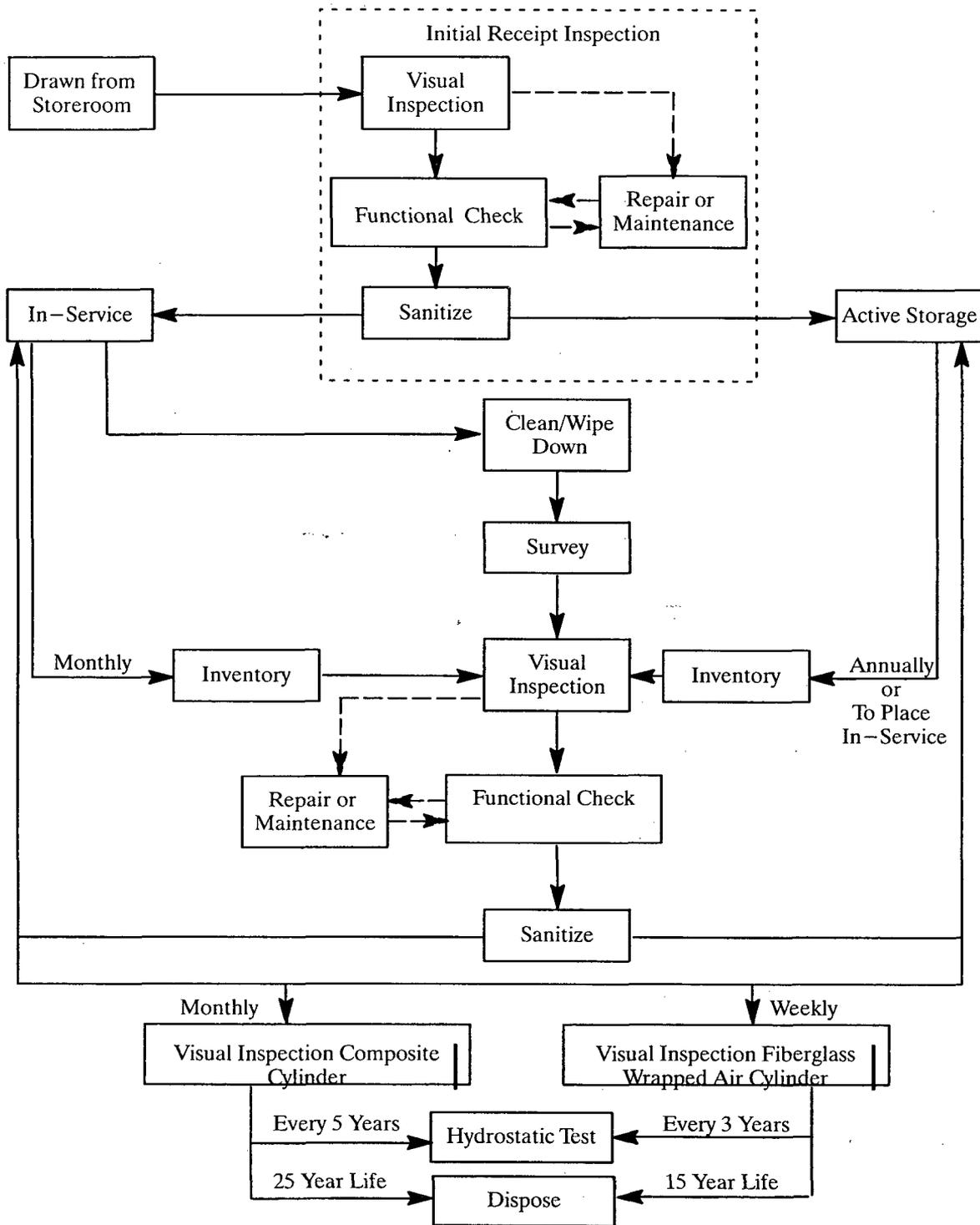


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**Attachment 1**  
**Inspection and Maintenance Frequency Flowcharts and Tables**  
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**Flowchart Number 4 – Scott Self-Contained Breathing Apparatus**

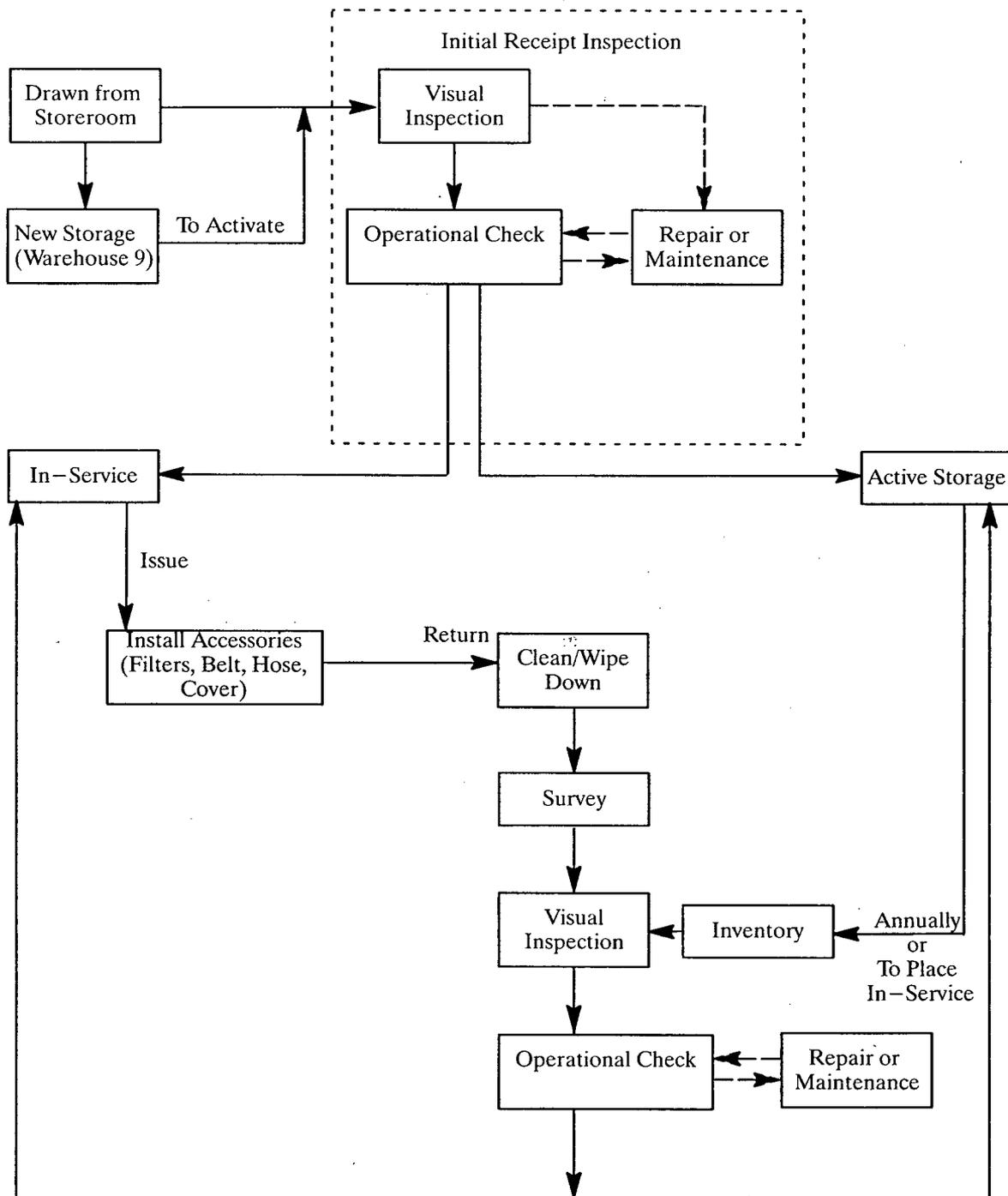


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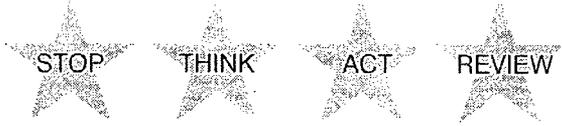


**Attachment 1**  
**Inspection and Maintenance Frequency Flowcharts and Tables**  
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**Flowchart Number 5 – Bullard Abrasive Blasting Respirator Assemblies**



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**Attachment 1**  
**Inspection and Maintenance Frequency Flowcharts and Tables**  
 (Sheet 6 of 6)

Table - 1 Delta Suit, Bubblehoods, or TYVEK Hoods – Air Supplied or Powered Air Purifying		
Activity	Frequency	
	Prior To Use	After Use
Visual Inspection	X	
Discard		X

Table - 2 Filter Cartridges and Canisters		
Activity	Frequency	
	Prior To Use	After Use
Visual Inspection	X	
Discard		X

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