

## PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

S.No	Potential Failure Mode	Potential Effect(process/end User) or Consequences	S	Contributory Factors	0	Current Control Measures	D	RPN (SXO XD)	RPN Rank
1.	Breakdown/failur e of HVAC system causing excursion of temperature, humidity and losing differential pressure between areas	<ul> <li>Cross contamination</li> <li>Manufacturing disruption</li> <li>Material and production failure</li> <li>Increase in deviation situation</li> </ul>	2	<ul> <li>Preventive maintenance plan implementation failure</li> <li>HEPA filter integrity failure</li> </ul>	1	<ul> <li>Preventive Maintenance procedure is available SOP EN/088 (Preventive Maintenance for ( AHU &amp; FCU)</li> <li>HVAC Validation will be performed once a year (± 30 days) as per VMP</li> <li>Routine environmental conditions monitoring plan exists and followed as per SOP QA/086 (Temperature and Humidity Monitoring )</li> <li>Routine Environmental monitoring by settle plate method.</li> <li>Area Restart up SOP.</li> <li>Differential Pressure Monitoring SOP No. EN/095</li> <li>Precautionary Action During Failure SOP.</li> <li>Temperature mapping done.</li> <li>Relative Humidity/temperature/Differential pressure monitoring log book of previous year are verified and no temperature excursion observed.</li> </ul>	2	4	- Current control measures are adequate - Risk is acceptable
2.	<ul> <li>Area not qualified</li> </ul>	<ul><li>Cross contamination</li><li>Product failure</li></ul>	3	Area not designed as per GMP and product requirement	2	<ul> <li>Class 5 condition is facilitate under dispensing booth</li> </ul>	1	6	<ul> <li>Current control measures are adequate</li> <li>Risk is acceptable</li> </ul>
3.	<ul> <li>Breakdown of air compressor</li> <li>Compressed air line filter integrity failure</li> </ul>	<ul> <li>Contamination of products</li> </ul>	2	Preventive maintenance implementation plan failure	2	<ul> <li>Preventive maintenance plan exists and followed</li> <li>Monitoring of compressed air (± 6 month) system available</li> </ul>	1	4	<ul> <li>Current control measures are adequate</li> <li>Risk is acceptable</li> </ul>
4.	<ul> <li>Breakdown of dispensing booth</li> <li>Balance calibration failure</li> </ul>	<ul> <li>Cross contamination</li> <li>Dispensing error</li> <li>Area not qualified</li> </ul>	2	<ul> <li>Preventive maintenance plan failure</li> <li>Calibration schedule procedure is not available.</li> </ul>	1	<ul> <li>Requalification plan for dispensing booth exists</li> <li>Calibration schedule procedure is available.</li> </ul>	1	2	<ul> <li>Current control measures are adequate</li> <li>Risk is acceptable</li> </ul>



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05	Uncontrolled material and man movement	<ul> <li>Dispensing error</li> <li>Cross contamination</li> </ul>	2	<ul> <li>Material information not available in Dispensing sheet</li> <li>Material identification is not available</li> <li>Non adherence to gowning procedure</li> <li>Inadequacy in line</li> </ul>	2	<ul> <li>Dispensing sheet is available.</li> <li>Material status label is available</li> <li>Adequate gowning procedure is established.</li> </ul> Line clearance SOP and checklist exist	1	6	- Current control measures are adequate - Risk is acceptable - Current
00		Product failure	5	clearance checklist	Z		I	0	control measures are adequate - Risk is acceptable
07	Sharing password	<ul> <li>Unauthorized access</li> </ul>	3	<ul> <li>Malicious intent</li> </ul>	2	<ul> <li>Password protection, hence protected from unauthorized access</li> <li>Computerized system validation done</li> <li>Audit trial activated</li> </ul>	1	6	- Current control measures are adequate - Risk is acceptable

S- Severity, O- Occurrence rating, D-Detection rating, RPN Risk Priority Number

## Conclusion: