

Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Final Report Number: E13-VAL-RFR-110

Owner: Patrick Owen Revision: 0
Effective Date: July 10, 2013 Page: 1 of 17



## Approvals

Signing below indicates agreement that the execution of the Installation, Operational, and Performance Qualification Protocol for Carton Machine #1, Cherry Burrell Model EQ2 located at 396 Smathers Street at the Repackaging facility is complete and the process is validated.

Project Team Member	Functional Area	Signature	Date
Patrick Owen	Engineering	Par Sale	7/10/13
Robert Willis	Maintenance	wellen and	7(11)13
Monte Plott	Production	Murle Rist	7/11/13
Matt Haynes	Operations	Cluthof	7/11/13
Deborah Durbin	Quality	Allerlin	7/11/13

A copy of the executed protocol will be attached behind this report.



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#### I. PURPOSE:

The purpose of the protocol is to certify with documented evidence that the Epsom Salt Carton Machine #1 (Cherry Burrell EQ2 Serial #5025), functions as intended throughout its anticipated operating ranges. This final report provides documented evidence that the objectives, methodology, documentation, and test activities needed to complete the Installation Qualification (IQ), Operational Qualification (OQ) and Process Qualification (PQ) for the Epsom Salt Carton Machine #1 located at Giles Chemical Repackaging Unit, 396 Smathers Street, Waynesville, NC were all executed and all acceptance criteria were met.

#### II. SUMMARY

This Epsom Salt Carton Machine Model EQ2 (serial #5025) was manufactured by Cherry Burrell, Inc and purchased used from Dairy Packaging Incorporated in Tampa, FL. Dairy Packaging had the machine modified for use with Epsom Salt and it was installed at Giles in April of 2011. The machine is used to fill 1 and 2 pound cartons.

The products that are impacted by this study were all Epsom Salt products manufactured by Giles Chemical. No other departments or systems were be affected by the installation or use of this equipment.

The following tests were performed in this qualification:

Controls/Indicators Verification – to verify and document that Epsom Salt Carton Machine #1 oven, start/stop, and infeed controls operate as described by the manufacture.

Lot code and expiration date verification: Verification of proper imprinting of the lot code and expiration date.

Sealed box: Verification that the Epsom Salt Carton Machine securely seals the carton at both ends.

Fill Weights: Verification that the Epsom Salt Carton Machine is capable of producing a finished product that contains a weight of Epsom Salt with a minmum of the label stated weight.

All Installation, Operational, and Performance acceptance criteria were met as displayed in the tables in the Appendices.

#### III. CONCLUSION

The results of the completed Installation Operational Performance Qualification protocol show that all acceptance criteria were met for all samples. All testing results provide documented evidence that Epsom Salt Carton Machine #1 (Cherry Burrell EQ2 Serial #5025) is installed, operating, and performing as expected. Epsom Salt Carton Machine #1 (Cherry Burrell EQ2 Serial #5025) is considered validated.

### IV. RECOMMENDATIONS

 It is recommended that Epsom Salt Carton Machine #1 (Cherry Burrell EQ2 Serial #5025), located at Giles Chemical Repackaging, 396 Smathers Street, Waynesville, NC 28786 be considered validated based on meeting the acceptance criteria of the IQ/OQ/PQ protocol.

#### V. REFERENCE:

Operating Manual for Cherry Burrell Carton Machine, March 1985.

E13-VAL-RIQ-101, Carton Machine 1 IQ/OQ/PQ Protocol, rev 0, 5/21/2013



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## Appendix I: INSTALLATION QUALIFICATION

### A. Installation Qualification

#### 01. Location

a. Verify that Epson Salt Filling Machine is positioned properly

Distance Criterion	Is the current area sufficient to open the access without obstructions (Yes/No)
Allow sufficient room around the machine for access doors and panels to be opened	YES
The machine must be located in an area that is adequately ventilated	YES

#### 02. Level

a. It is important to make sure that the Epsom Salt Filling Machine is level.

Is the unit level? (Yes/No)	Acceptable (Yes/No)
YES	YES

#### 03. Utilities

a. Verify that unit is receiving its specified utility requirements.

Specified	Actual
460 V for Machine Minimum	461.3
115V for Controls	115
60 Hz	60
A valve should be located at the inlet to the machine to control flow	Yes



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## Appendix II: OPERATIONAL QUALIFICATION

1. Controls/Indicators Verification – to document that the Epsom Salt Filling Machine operates as described.

Description	Function	Did Item function properly (Yes/No)
Controls On/Off	With line power to the machine turned on, the controls switch powers up the control panel	YES
Vacuum	The vacuum switch applies vacuum to the carton picker manifold to start cartons feeding into the machine. With the vacuum switch off, the machine may be cycled for service checks and warm-up without running cartons.	YES
Jog/Run	In jog position, and filler auto switch on, the filler will index under control of the fill timer. To "jog" the former, the index start switch must be pressed. In run position, the vacuum pump motor and the start button light will be turned on.	
Carton Feed	When line 1 feed switch is engaged, the carton blanks from line 1 will feed into the machine. When line 2	
Oven Ignition	When the oven ignition button is pressed, the ovens ignites and begins heating.	YES



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## Appendix III: PERFORMANCE QUALIFICATION

A. Firmly Sealed: Verify That the Epsom Salt Filling Machine firmly seals the carton on both ends. Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

#### Table I

Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)
1	YES	NO	YES	NO
2	YES	NO	YES	NO
3	YES	NO	YES	NO
4	YES	NO	YES	МО
5	YES	NO	YES	МО
6	YES	NO	YES	ИО
7	YES	NO	YES	NO
8	YES	NO	YES	NO
9	YES	NO	YES	МО
10	YES	NO	YES	NO
11	YES	NO	YES	МО
12	YES	NO	YES	МО
13	YES	NO	YES	NO
14	YES	NO	YES	NO
15	YES	NO	YES	NO
16	YES	NO	YES	NO
17	YES	NO	YES	NO
18	YES	NO	YES	NO
19	YES	NO	YES	NO
20	YES	NO	YES	NO
21	YES	NO	YES	NO
22	YES	NO	YES	NO
23	YES	NO	YES	NO
24	YES	NO	YES	NO
25	YES	NO	YES	NO



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Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)
26	YES	NO	YES	NO
27	YES	NO	YES	NO
28	YES	NO	YES	NO
29	YES	NO	YES	NO
30	YES	NO	YES	NO
31	YES	NO	YES	МО
32	YES	NO	YES	МО
33	YES	NO	YES	NO
34	YES	NO	YES	NO
35	YES	NO	YES	ИО
36	YES	NO	YES	ИО
37	YES	NO	YES	NO
38	YES	NO	YES	МО
39	YES	МО	YES	NO
40	YES	NO	YES	МО
41	YES	NO	YES	NO
42	YES	NO	YES	NO
43	YES	NO	YES	NO
44	YES	NO	YES	NO
45	YES	NO	YES	МО
46	YES	NO	YES	МО
47	YES	NO	YES	МО
48	YES	NO	YES	NO
49	YES	NO	YES	NO
50	YES	NO	YES	NO



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Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)
51	YES	NO	YES	NO
52	YES	NO	YES	NO
53	YES	NO	YES	NO
54	YES	NO	YES	NO
55	YES	NO	YES	NO
56	YES	NO	YES	NO
57	YES	NO	YES	NO
58	YES	NO	YES	МО
59	YES	NO	YES	NO
60	YES	NO	YES	NO
61	YES	NO	YES	NO
62	YES	NO	YES	NO
63	YES	NO	YES	МО
64	YES	NO	YES	NO
65	YES	NO	YES	NO
66	YES	NO	YES	NO
67	YES	NO	YES	NO
68	YES	NO	YES	NO
69	YES	NO	YES	NO
70	YES	NO	YES	NO
71	YES	NO	YES	NO
72	YES	NO	YES	NO
73	YES	NO	YES	NO
74	YES	NO	YES	NO
75	YES	NO	YES	NO



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Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)
76	YES	NO	YES	NO
77	YES	NO	YES	NO
78	YES	NO	YES	NO
79	YES	NO	YES	NO
80	YES	NO	YES	NO
81	YES	NO	YES	NO
82	YES	NO	YES	NO
83	YES	NO	YES	NO
84	YES	NO	YES	NO
85	YES	NO	YES	NO
86	YES	NO	YES	NO
87	YES	NO	YES	NO
88	YES	NO	YES	NO
89	YES	NO	YES	NO
90	YES	NO	YES	NO
91	YES	NO	YES	NO
92	YES	NO	YES	NO
93	YES	NO	YES	NO
94	YES	NO	YES	NO
95	YES	NO	YES	NO
96	YES	NO .	YES	NO
97	YES	NO	YES	NO
98	YES	NO	YES	NO
99	YES	NO	YES	МО
100	YES	NO	YES	МО



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## PERFORMANCE QUALIFICATION (Continued)

B. Lot Code and Expiration Date Imprinting: Verify that the lot code and expiration date numbers are imprinted properly and accurately.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

Table II-

Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)
1	Yes	Yes
2	Yes	Yes
3	Yes	Yes
4	Yes	Yes
5	Yes	Yes
6	Yes	Yes
7	Yes	Yes
8	Yes	Yes
9	Yes	Yes
10	Yes	Yes
11	Yes	Yes
12	Yes	Yes
13	Yes	Yes
14	Yes	Yes
15	Yes	Yes
16	Yes	Yes
17	Yes	Yes
18	Yes	Yes
19	Yes	Yes
20	Yes	Yes
21	Yes	Yes
22	Yes	Yes
23	Yes	Yes
24	Yes	Yes
25	Yes	Yes



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Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)
26	Yes	Yes
27	Yes	Yes
28	Yes	Yes
29	Yes	Yes
30	Yes	Yes
31	Yes	Yes
32	Yes	Yes
33	Yes	Yes
34	Yes	Yes
35	Yes	Yes
36	Yes	Yes
37	Yes	Yes
38	Yes	Yes
39	Yes	Yes
40	Yes	Yes
41	Yes	Yes
42	Yes	Yes
43	Yes	Yes
44	Yes	Yes
45	Yes	Yes
46	Yes	Yes
47	Yes	Yes
48	Yes	Yes
49	Yes	Yes
50	Yes	Yes



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## APPENDIX III TABLE II CONTINUED -

Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)
51	Yes	Yes
52	Yes	Yes
53	Yes	Yes
54	Yes	Yes
55	Yes	Yes
56	Yes	Yes
57	Yes	Yes
58	Yes	Yes
59	Yes	Yes
60	Yes	Yes
61	Yes	Yes
62	Yes	Yes
63	Yes	Yes
64	Yes	Yes
65	Yes	Yes
66	Yes	Yes
67	Yes	Yes
68	Yes	Yes
69	Yes	Yes
70	Yes	Yes
71	Yes	Yes
72	Yes	Yes
73	Yes	Yes
74	Yes	Yes
75	Yes	Yes



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Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)
76	Yes	Yes
77	Yes	Yes
78	Yes	Yes
79	Yes	Yes
80	Yes	Yes
81	Yes	Yes
82	Yes	Yes
83	Yes	Yes
84	Yes	Yes
85	Yes	Yes
86	Yes	Yes
87	Yes	Yes
88	Yes	Yes
89	Yes	Yes
90	Yes	Yes
91	Yes	Yes
92	Yes	Yes
93	Yes	Yes
94	Yes	Yes
95	Yes	Yes
96	Yes	Yes
97	Yes	Yes
98	Yes	Yes
99	Yes	Yes
100	Yes	Yes



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## PERFORMANCE QUALIFICATION (Continued)

C. Fill Weights: Verify that the fill weights are within the accepted range of 1.00+ pounds.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample

#### Table III-

size of 100 cartons.

Sample #	Actual Weight	Acceptable (Yes/No)
1	1.01	YES
2	1.02	YES
3	1.02	YES
4	1.02	YES
5	1.02	YES
6	1.01	YES
7	1.01	YES
8	1.01	YES
9	1.01	YES
10	1.01	YES
11	1.02	YES
12	1.01	YES
13	1.02	YES
14	1.02	YES
15	1.02	YES
16	1.01	YES
17	1.00	YES
18	1.02	YES
19	1.01	YES
20	1.02	YES
21	1.00	YES
22	1.02	YES
23	1.02	YES
24	1.01	YES
25	1.03	YES



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Sample #	Actual Weight	Acceptable (Yes/No)
26	1.03	YES
27	1.03	YES
28	1.04	YES
29	1.04	YES
30	1.04	YES
31	1.04	YES
32	1.04	YES
33	1.03	YES
34	1.04	YES
35	1.03	YES
36	1.04	YES
37	1.04	YES
38	1.03	YES
39	1.03	YES
40	1.03	YES
41	1.03	YES
42	1.04	YES
43	1.04	YES
44	1.04	YES
45	1.04	YES
46	1.04	YES
47	1.05	YES
48	1.05	YES
49	1.05	YES
50	1.05	YES



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Sample #	Actual Weight	Acceptable (Yes/No)
51	1.04	YES
52	1.05	YES
53	1.04	YES
54	1.04	YES
55	1.05	YES
56	1.04	YES
57	1.05	YES
58	1.05	YES
59	1.05	YES
60	1.05	YES
61	1.05	YES
62	1.04	YES
63	1.04	YES
64	1.05	YES
65	1.05	YES
66	1,04	YES
67	1.04	YES
68	1.03	YES
69	1.03	YES
70	1.03	YES
71	1.03	YES
72	1.03	YES
73	1.03	YES
74	1.04	YES
75	1.03	YES



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Sample #	Actual Weight	Acceptable (Yes/No)
76	1.05	YES
77	1.06	YES
78	1.05	YES
79	1.04	YES
80	1.05	YES
81	1.05	YES
82	1.05	YES
83	1.05	YES
84	1.04	YES
85	1.03	YES
86	1.04	YES
87	1.04	YES
88	1.04	YES
89	1.05	YES
90	1.04	YES
91	1.04	YES
92	1.04	YES
93	1.04	YES
94	1.03	YES
95	1.04	YES
96	1.06	YES
97	1.06	YES
98	1.06	YES
99	1.06	YES
100	1.05	YES



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#### Approvals

Signing below indicates agreement that the operational qualification protocol is ready for execution of the Installation Operational Performance Qualification Protocol for Carton Machine #1, Cherry Burrell Model EQ2 located at 396 Smathers Street at the Repackaging facility.

Project Team  Member	Functional Area	Signature	Date
Patrick Owen	Engineering	Had selv	5/21/13
Robert Willis	Maintenance	Silver Bus	5/21/13.
Monte Plott	Production.	Monlay Rest	5/21/13
Matt Haynes	Operations	albas	5/21/13
Deborah Durbin	Quality	Muli	5/21/13

A final summary report that consists of results and conclusions based on the data collected after protocol execution will be written and approved. The executed protocol will be attached behind the report.



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#### I. PURPOSE:

The purpose of this protocol is to certify with documented evidence that the Epsom Salt Carton Machine #1 (Cherry Burrell EQ2 Serial #5025), functions as intended throughout its anticipated operating ranges. This protocol sets forth the objectives, methodology, documentation, and test activities needed to complete the Installation Qualification (IQ), Operational Qualification (OQ) and Process Qualification (PQ) for the Epsom Salt Carton Machine #1 located at Giles Chemical Repackaging Unit, 396 Smathers Street, Waynesville, NC.

#### II. BACKGROUND:

This Epsom Salt Carton Machine Model EQ2 (serial #5025) was manufactured by Cherry Burrell, Inc and purchased used from Dairy Packaging Incorporated in Tampa, FL. Dairy Packaging had the machine modified for use with Epsom Salt and it was installed at Giles in April of 2011. The machine is used to make 1 and 2 pound cartons.

The products that are impacted by this study are all Epsom Salt products manufactured by Giles Chemical.

### III. OVERVIEW

No other departments or systems will be affected by the installation or use of this equipment.

The following tests will be performed in this qualification:

Controls/Indicators Verification – to document that Epsom Salt Carton Machine #1 oven, start/stop, and infeed controls operate as described by the manufacture.

Lot code and expiration date verification: Verification of proper imprinting of the lot code and expiration date.

Sealed box: Verification that the Epsom Salt Carton Machine securely seals the carton at both ends.

Fill Weights: Verify that the Epsom Salt Carton Machine is capable of producing a finished product that contains a weight of Epsom Salt with a minmum of the label stated weight.

### IV. SYSTEM DESCRIPTION:

- A. The Cherry Burrell EQ2 will open, bottom seal, fill, and top seal gable top polyethylene coated cartons with Epsom Salt. It is a 2 line system, opening filling, and sealing 2 cartons at a time.
- B. Description of Operation
  - 01. The carton blanks are pulled from the infeed magazines by vacuum cups. The vacuum cups open the carton and square it. The blanks are slid onto the forming mandrel by a chain. The mandrel supports the cartons while the carton bottoms are heated, formed, and sealed. Gas fired ovens direct heated air to activated the sealing areas of the cartons. Vacuum cups then slide the bottom sealed cartons from the mandrel into conveyor pockets formed by the two conveying chains.
  - 02. The cartons are indexed down the filler carriage at the same rate as they are unloaded from the mandrels. The top breakers on the filler carriage crease the tops on the sealing lip. The cartons are indexed into the fill stations by the conveyor. Each carton is then filled by an auger type filler. The carton tops are heated, folded, sealed and indexed out to the carton conveyor.
  - 03. On the carton conveyor, the carton is check weighed (and rejected if the weight is below label weight) and the Lot/Expiration information is applied by Continuous Inkjet.
  - 04. The cartons are then manually packed into case packaging.

#### V. SCOPE

The Installation Operational Performance Qualification protocol is intended to certify with documented evidence that the Epsom Salt Carton Machine #1 is installed, operates, and functions as intended throughout its anticipated operating ranges.

## VI. ROLES AND RESPONSIBILITIES

1. Engineering



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- Write and issue the protocol
- Investigate protocol deviation reports
- Execute the OQ and manage the data collection for the PQ.
- \* Review raw data and originate interim notification to Quality Assurance
- Write and route the final report

#### Quality Assurance

- · Review and approve the protocol.
- \* Review and approve raw data and notifications.
- \* Review, approve, and store the final report.

#### Maintenance

- Provide Equipment Manuals needed to execute operational qualification.
- Review and approve the protocol.
- \* Execute the IQ.
- Review and approve raw data and notifications.
- \* Review and approve the final report

#### Production

- Execute the PQ.
- Review and approve the final report.

#### VII. TEST PROGRAM

#### A. INSTALLATION QUALIFICATION

#### Objective

The objective of the installation verification is to document that Epsom Salt Carton Machine #1 is installed as indicated by Cherry Burrell.

#### Equipment/Materials

Epsom Salt Carton Machine model EQ2 (SN 5025)

Ideal Digital Multimeter Model #61-340 (SN 100100221)

#### **Procedure**

Perform each listed below for the Epsom Salt Carton Machine

- Location: Verify that the equipment is situated to allow sufficient room around the machine for access doors and panels to be opened.
- Level: Verify instrument is level.
- Utilities
  - Electrical Requirements: Verify that instrument is receiving its specified Voltage.

## Acceptance Criteria

Ensure that the installation is in accordance with the manual's specifications.



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## B. OPERATION QUALIFICATION

#### Objective

The objective of Controls/Indicators Verification is to document that the Epsom Salt Carton Machine #1 operates as indicated by Cherry Burrell, Inc. The controls will be operated to test the ability of the Epsom Salt Carton Machine #1 to provide adequate control for starting/stopping, carton feed, and oven ignition.

### Equipment/Materials

Epsom Salt Carton Machine model EQ2 (SN 5025)

#### **Procedure**

Test each operation of the Epsom Salt Carton Machine #1

## Acceptance Criteria

Verification that start/stop, carton feed, and oven ignition controls function as indicated by operation manual

## C. PERFORMANCE QUALIFICATION

#### Objective

The objective of performance testing is to document that the Epsom Salt Carton Machine #1 performs the function required by Giles Chemical. The final product will be tested to verify:

- That the Epsom Salt Carton Machine firmly seals the carton on both ends.
- That the lot code and expiration date numbers are printed properly and accurately.
- That the fill weights are within the accepted range (1.0+ pounds for 1 pound cartons and 2.0+ pounds for 2 pound cartons).

#### Equipment/Materials

Epsom Salt Carton Machine model EQ2 (SN 5025)

Empty Carton Blank (for tare)

Scale

#### Procedure

Run the Epsom Salt Filling Machine on 1 pound cartons for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

Examine the finished product and check for:

- That the Epsom Salt Filling Machine firmly seals the carton on both ends.
- That the lot code and expiration date numbers are imprinted properly and accurately.
- That the fill weights are within the accepted range.

Repeat for 2 pound cartons.

#### Acceptance Criteria

The Epsom Salt Filling Machine firmly seals the carton on both ends.

The Epsom Salt Filling Machine correctly imprints the lot code and expiration date.

That the fill weights are within the accepted range of 1.00+ pounds for 1 pound cartons and 2.00+ pounds for 2 pound cartons.



## Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

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### VIII. CALIBRATION

Verify that all instrumentation that requires calibration is calibrated.

- Scale
- Ideal Digital Multimeter Model #61-340 (SN 100100221)

### IX. REFERENCE:

Operating Manual for Cherry Burrell Carton Machine, March 1985.



Validation Protocol

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MAGNESIA, LLC

## EPSOM SALT FILLING MACHINE: INSTALLATION QUALIFICATION

Title: Carton Machine 1 IQ/OQ/PQ Protocol

### A. Installation Qualification

#### 01. Location

a. Verify that Epson Salt Filling Machine is positioned properly

	LOCATION		
Distance Criterion	Is the current area sufficient to open the access without obstructions (Yes/No)	Verified By	Date
Allow sufficient room around the machine for access doors and panels to be opened	YES	PST	6/10/13
The machine must be located in an area that is adequately ventilated	Y.ES	PSO	6/10/13
Comments:			

02. Level

a. It is important to make sure that the Epsom Salt Filling Machine is level.

	LEVI	iL		
Is the unit level? (Yes/No)	Acceptable (Yes/No)	Verified By	Date	
YES	YES	PET	6/10/13	P
Comments:				6/1

03. Utilities

a. Verify that unit is receiving its specified utility requirements.

	UTILIES			
	Electrical			
Specified	Actual	Verified By	Date	
460 V for Machine	461.31	PSO	6/10/13	
115V for Controls	115V	Per	6/10/13	
60 Hz	60Hz	Per	6/10/13	
	Water			
The machine requires a water connection for co	ooling			
A valve should be located at the inlet to the machine to control flow	YES	P&O	6/10/13	Der
Comments:				- 6/6/17
Reviewed By: 0001 0161	<u></u>	Date: 7-8-1	<u> </u>	



## Validation Protocol

Number: E13-VAL-RIQ-101 Title: Carton Machine 1 IQ/OQ/PQ Protocol

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## EPSOM SALT FILLING MACHINE: OPERATIONAL QUALIFICATION

## B. Operation Qualification

01. Controls/Indicators Verification - to document that the Epsom Salt Filling Machine operates as described.

	Controls/Indicators Verification	)n		
Description	Did Ite function Function (Yes/N		Verified By	Date
	Former			
Controls On/Off	With line power to the machine turned on, the controls switch powers up the control panel	YES	per	6/10/13
Vacuum	The vacuum switch applies vacuum to the carton picker manifold to start cartons feeding into the machine. With the vacuum switch off, the machine may be cycled for service checks and warm-up without running cartons.	YES	Pa	6/10/z
Jog/Run	In jog position, and filler auto switch on, the filler will index under control of the fill timer. To "jog" the former, the index start switch must be pressed. In run position, the vacuum pump motor and the start button light will be turned on.	YES	P&	6/10/13
Carton Feed	When line 1 feed switch is engaged, the carton blanks from line 1 will feed into the machine. When line 2 feed switch is engaged, carton blanks from line 2 will feed. These switches operate independently.	YE5	PS	6/10/13
Oven Ignition	When the oven ignition button is pressed, the ovens ignites and begins heating.	YE5	PE	6/10/13
Comments:				

Reviewed	Bv:
TOTIONOG	<b>~</b> , .

Date:

7-8-13



Validation Protocol

Number: E13-VAL-RIQ-101 Title: Carton Machine 1 IQ/OQ/PQ Protocol

Revision: 0 Owner: Patrick Owen

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EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 1.00+ or 2.00+ pounds (circle one)... Run the Epsom Salt Filling Machine for 5 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	riii V	Veights.	Trial	
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	1.01	Ÿ	per	7/2/13
2	1,02	Υ	PEN	7/2/13
3	1.02	Υ	Per	7/2/13
4	1.02	ý	150	7/2/13
5	1.02	У	per	7/2/13
6	1,01	Y	per	7/2/13
7	1.01	У	Dev	7/2/13
8	1.01	У	PSO	7/2/13
9	1.01	У	PSV	7/2/13
10	1.01	У	PSt	7/2/13
11	102	ý	PEN	7/2/13
12	1.01	У	PSV-	7/2/13
13	1.02	<u> </u>	P30-	7/2/13
14	1.02	Y	120	7/2/13
15	1.02	ý	PSO	7/2/13
16	1.01	У	PSo-	7/2/13
17	1,00	У	1150	7/2/13
18	1.02	<i>Y</i>	PEV	7/2/13
19	1,01	<u> </u>	P30	7/2/13
20	LOL	Y	PSV	7/2//3
21	l.co	Y	195	7/2/13
22	1.02	У	P30	/(2//3
23	1.02 1.02 1.03	У	PSV -	12/13 12/13
24	401	, Y	P20-	7/2/13
25	1.03	У	P26	7/2//3
Commen	ts:			

Reviewed By: 1

Date:



Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

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# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 1.00+) or 2.00+ pounds (circle one)..

Run the Epsom Salt Filling Machine for 5 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Fill W	eights	Trial	ک of 4
Sample #	- Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	1.03	Y	PESO	7/2/13
2	1.03	Ý	PEN	7/2/13
3	1,04	Y	P30	7/2/13
4	1.04	Y	Per	7/2/13
5	1.04	γ	130	7/2/13
6	404	Y	PSO	7/2/13
7	1.04	γ	pso	7/2/13
8	1.03	У	PSU	7/2/13
9	1.04	У	P30	7/2/13
10	1.03	У	PSV	7/2/13
11	1.04	ý	PSO	7/2/13
12	1,04	У	P30	7/2/13
13	1.03	<i>y</i>	P30	7/2/13
14	1.03	У	PSO	7/2/13
15	1.03	ý	PSO	7/2/13
16	1.03	ý	PSo	7/2/13
17	1.04	У	PSF	7/2/13
18	1.04	ý	PSO	7/2//3
19	1.04	<i>'</i>	P30	7/2/17
20	1.04	У	P35	7/2/13
21	1.04	, γ	P30	7/2/13
22	1.05	У	P50	7/2/13
23	1.05	ý	PSO PSO	7/2/13
24	1.05	ý	PSO	7/2/13
25	1.05 1.05 1.05	· y	PSO	7/2/13
Commen	98. ATT 198			

Reviewed By: DION VOLLA

Date:

7-8-13



### Validation Protocol

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Revision: 0 Owner: Patrick Owen

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## EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 1.00+) or 2.00+ pounds (circle one).. Run the Epsom Salt Filling Machine for 5 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Fill V	<b>Yeights</b>	Trial	3 of 4
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	1.04	У	P3v	7/2/13
2	1.05	У	P95	7/2/13
3	1.04	У	PSV	7/2/13
4	1.04	Ý	PSo	7/2//3
5	1.05	У	195	7/2/13
6	1.04	Y	PSO	7/2/13
7	1.05	У	PSV	7/2/13
8	1.05	У	Por	7/2/13
9	1.05	У	PSV	7/2/13
10	1.05	Y	P.So-	7/2/13
11	1.05	У	PSU	7/2/13
12	1.04	Υ	Pao	7/2/13
13	1.04	Ϋ́	PSO	7/2/13
14	1.05	У	P96-	7/2/13
15	1.05	У	P30	7/2/13
16	1,04	У	PW	7/2/13
17	1,04	У	P35	7/2/13
18	1.03	У	P30	7/2/13
19	1.03	Y	P80	7/2/13
20	1.03	У	PSO	7/2/13
21	1,03	· · · y	P30	7/2/13
22	1,03	Ÿ	P30	7/2/13
23	1.03	У	P.80	7/2//3
24	1.04	У	150	7/2/13
25	1.03	Y	P30	7/2/13
Comments		· .		

Reviewed By:

Date:

Controlled Document



### Validation Protocol

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Owner: Patrick Owen Revision: 0

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## EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 1.00+ or 2.00+ pounds (circle one)..

Run the Epsom Salt Filling Machine for 5 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	EIIIV	Veights	Tria	4   of 4
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	1.05	У	pero	7/2/13
2	1.06	Y	Por	7/2/13
3	1.05	У	Peo	7/2/13
4	1.04	Y	P50	7/2/13
5	1.05	ý	PEV	7/2/13
6	1.05	Ý	PSV	7/2/13
7	1.05	У	PSo	7/2/13
8	1.05	У	P-20	7/2/13
9	1.04	У	PSO	7/2/13
10	1.03	ý	P30	7/2//3
11	1.04	Ý	PSI	7/2/13
12	1.04	Y	P90	7/2/13
13	1.04	У	PSO	7/2/13
14	1.05	Y	PSV	7/2/13
15	1.04	У	PSO	7/2/13
16	1.04	·, X	P30	7/2/13
17	1.04	У	PSI	7/2/13
18	1.04	У	PSo	7/2/13
19	1,03	У .	PSO	7/2/13
20	1.04	У	PSO	7/2/13
21	1.06	У	730	7/2//3
22	1.06	У	P30-	7/2/13
23	1.06	<u> </u>	PSV	7/2/13
24	1.06	·	P30-	7/2/13
25	1.05	Y	Po	7/2/13
Comments		•		

Reviewed By: DOM MUM

Date:

7-8-12



## Validation Protocol

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Owner: Patrick Owen Revision: 0
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## EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That the Epsom Salt Filling Machine firmly seals the carton on both ends. Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	izz or 100 cartons	THE RESERVE OF THE PROPERTY OF	y Sealed		Tri	al / of 4
Sample #	Is the top sealed? (Yes/No)	Is the top scorclied? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)	Verified By	Date
1	Y	N	Υ	N	Par	7/2/13
2	V	N	, V	N		
3		N	(	N		
4	X	N	<b>\</b>	N		
5	×	N	¥	N		
6	· V	N	4	N		
7	V	N	У	N		
8	<i>(</i>	N	V _	N		
9	<u> </u>	N	/	N		
10	\/	N		N		
11	<u> </u>	N	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N_		
12	V	<i>N</i>	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	W	Par	7/2/13
13	<u> </u>	N_	Ϋ́Υ	N		
14	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N		
15	/	N	(Y	N		
16	¥	1/	Ϋ́Υ	N		· .
17	ý	Ň	У	`N		
18		N	y	N		
19	<u> </u>	N	΄γ	N		
20	/ 	N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N		
21		N	Y Y	N		
22	У_	N	Υ	N		
23	\frac{\frac{1}{2}}{2}	N	) Ý	N		
24	У	N	y _	N		
25	7	W	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W	1190	7/2//3
	60.000 50.000	1				

Comments:

Reviewed By:

Date:

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Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

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## EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That the Epsom Salt Filling Machine firmly seals the carton on both ends. Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

1 To 1 To 1 To 1		Firmly	Sealed		Trial	`ユ   of 4
Sample #	Is the top sealed?	Is the top scorched?	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)	Verified By	Date
	(Yes/No)	(Yes/No)	(Yes/No)	N	Pers	7/2/13
	<u> </u>	10	<del>\</del>	11	1 1	i
2	<u> </u>	<u>//</u>	<del></del>	1/		
3	<del></del>	<i>N</i>	<del>- Y -</del>	1/		
4	<u> </u>	N .	<u> </u>	1//		
5		<i>N</i>	<u> </u>	//		
6	X	N	<u> </u>	N		
7	·y	N	<u> </u>	N		
8	X	N	Υ	N		
9	Y	N	<u> </u>	$\mathcal{N}_{-}$		
10	y	N	\ Y	N		
11		N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N	}	
12	×	N	Y	W	Par	7/2/13
13	Y	N	V	N		
14	),	N	· /	N		
15	Y	N	\ <u>'</u> \ <u>'</u>	N		
16	Ý	N	ý	N		
17	V	N	Ý	N		
18	У	N	Y	N		
19	γ	N	У	N		
20	Y	$\mathcal{N}$	<u> </u>	N		
21	Ý	/V	<u> </u>	N		
22	Y	N	Y	<i>N</i>		
23	У .	N	Y	N		
24	Y	W.	У	N,		
25	Y	N	<u> </u>	N	1181	7/2/13

Comments:

Reviewed By:

Date:

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## Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

Owner: Patrick Owen Revision: 0

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## EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That the Epsom Salt Filling Machine firmly seals the carton on both ends.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

		Firmly	'Sealed -		Trial	<b>う</b>   of 4
Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)	. Verified By	Date
1	y .	N	У	N	PSV	7/2/13
2	Ý	N		N		
3	У	N	λ	N		
4	У	N	У	N		
5	Ý	N	У	N _		
6	Y	N	· ·	N		
7	Ÿ	N	À	N		
8	У	N	Y	N		
9	Ý	N	V	N		
10	ý	N	4	N		
11	4	N	Χ,	N		
12	À	N	<i>'</i> Y	N		
13	$\succ$	N	<b>'</b> \/	$\mathcal{N}$	PEN	7/2/13
14	Y	N	, ,	N		
15	Y	$\mathcal{N}$	<b>'</b>			
16	Y	N	Υ	N		
17	Ý	N	Ý	N		
18	Y	N	<	<i>N</i>		
19	Ý	N	4	N/		
20	Ý	N	<i>'</i> >	N		
21	Y	N	Ý	N		
22	Y	N	Y	N		
23	Ÿ	N	Y	N		-
24	Y	N	У	N		1, ,
25	ÿ	N	Y	N	1191	1/9/B
La signi		ſ				

Reviewed By:

Comments:

Date:

7-8-13



## Validation Protocol

Number: E13-VAL-RIQ-101 Title: Carton Machine 1 IQ/OQ/PQ Protocol

Revision: 0 Owner: Patrick Owen

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# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That the Epsom Salt Filling Machine firmly seals the carton on both ends. Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Is the bottom sealed? (Yes/No)	Is the bottom scorched? (Yes/No)	Verified By	Date 7/≥//3
Y	$\mathcal{N}$	Y	N	Pear	7/2/13
<i>Y Y Y Y</i>	N N N	\( \frac{1}{2} \)	N		
Y Y	N N		·	1 1	
Y Y Y	N		N		
Y		4	N		
7	Λ/	У	N		: 
V	//	ý	1/		
V	N _	V	N		
V	N	<b>Y</b>	N		
- (	N		N		
Y	$\sim$	ý	N		
<b>V</b>	N_	_ 'y	N		
<b>'</b>	N	<u> </u>	'N	1	1
Y	· N	<u> </u>	N	130	7/2/13
4	N	Ý	N		<b></b>
Y	$\sim$	<u> </u>	N		
У	N	<u> </u>	<i>N</i>		
Y	N	<u> </u>	N		
У	- N/	<u> </u>	N		
Y	Ň	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	N		
Ý	N	Ý	<i>N</i>		
V	$\mathcal{N}$	Ý	N		
ý		' <i>Y</i>	N		
4	N	Y _	N		
	1/		Ι //	1 J	1 1
У		<del>                                     </del>	N	PSo	7/2/13
	/ / / / / / / / / / / / / / /		7	y N Y N	

Comments:

Reviewed By:

Date:



## Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol

Number: E13-VAL-RIQ-101

Owner: Patrick Owen Effective Date: May 21, 2013 Revision: 0 Page: 10 of 15 MAGNESIA, LLC

# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Lot Code and Expiration Date Imprinting: Verify that the lot code and expiration date numbers are imprinted properly and accurately.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Lot Code and Expiration	Date Imprinting	Trial	1 of 4
Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)	Verified By	Date
1	V	V	Per	7/2/13
2		<b>V</b>	ì	
3	<u> </u>	ý		
4		· y		
5	<b>Y</b>	× ×		
6	Y	V		
7	Ý	<b>Y</b>		
8	Y	Y		
9	Ÿ	У		
10	У	y		
11	Y	Y		1 .
12	У	У	1955	7/2/13
13	ý	У		
14	Y	ý		
15	У	· y		
16	<u> </u>	У		
17	·y	У		
18		, Y		
19 .		Y		
20	<u> </u>	Ý		
21	<u> </u>	Y		
22	Ý	Y		
23	Ý	У		
24	Y	<u>Y</u>	Der	5/2/2
25	Y	<u> </u>	Per	7/2/13
Commen	(3.03.0)	^		

Reviewed By:

Date:



### Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol

Number: E13-VAL-RIQ-101

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# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Lot Code and Expiration Date Imprinting: Verify that the lot code and expiration date numbers are imprinted properly and accurately.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Lot Code and Expiration Date Imprinting			) of 4
Sample	Is the Lot Code and Expiration	Is the Lot Code and Expiration Date correct? (Yes/No)	Verified By	□ Date
# 1	Date visible? (Yes/No)	Date correct; (1cs/1to)	Pen	7/2/13
2	<u> </u>	<u> </u>	1	
3	<u> </u>			
4	<u> </u>	7		
5	<i></i>	V		
	X .	/		
6	<u> </u>	<u> </u>		
7	<u> </u>	Y		
8	X	<u> </u>		
9	<u> </u>	Y		
10	Y	<u> </u>		
11	<u> </u>	Y	Der	7/5/10
12	Y	Y	1280	7/2/13
13	Y	Y		
14	Y	Ý – –		
15	Y	Y		
16	ý	Y		
17	У	Y		
18	ý	Y		
19	γ΄	Ϋ́		
20	У	Y	,	
21	. Y	Υ		
22	У	<i>Y</i>		
23	Y	ý		
24	Y	, Y		
25	Y	Y	PSI	7/2/13

Reviewed By: Date: 7-8-13.

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Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

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# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Lot Code and Expiration Date Imprinting: Verify that the lot code and expiration date numbers are imprinted properly and accurately.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Lot Code and Expiration	Date Imprinting	Trial	3 of 4
Sample #	Is the Lot Code and Expiration	Is the Lot Code and Expiration Date correct? (Yes/No)	Verified By	Date
1	V	Y	PSIT	7/2/13
2	V	Y		
3	V	×		
4	Y	ÿ		
5	ý	У		
6	Y	V		
7	V	<u> </u>		
8	ý	<u> </u>		
9	V	У		(
10	(y	Y	1)91	7/2/13
11	У	У		
12	Y	У		
13	Y	У		
14	У	Y		
15	· <b>&gt;</b>	Y		
16	Y	У		
17	Ý	Y		
18	У	) Y		
19	·	Y		
20	Ý	Y		
21	<i>Y</i>	У		
22	У	Y		
23	Y	Y		
24	Y	Y	0 =	
25	Υ [	Y	1150	7/2/13
Commen	ts:	<u> </u>		

Reviewed By:

Date:

7-8-13



## Validation Protocol

Number: E13-VAL-RIQ-101 Title: Carton Machine 1 IQ/OQ/PQ Protocol

Revision: 0 Owner: Patrick Owen

Effective Date: May 21, 2013 Page: 10 of 15



# EPSOM SALT FILLING MACHINE: PERFORMANCE QUALIFICATION (Continued)

A. Lot Code and Expiration Date Imprinting: Verify that the lot code and expiration date numbers are imprinted properly and accurately.

Run the Epsom Salt Filling Machine for 4 hours while randomly sampling 25 cartons per hour for testing, for a total sample size of 100 cartons.

	Lot Code and Expiration	Trial	4 of 4		
Sample #	Is the Lot Code and Expiration Date visible? (Yes/No)	Is the Lot Code and Expiration Date correct? (Yes/No)	Verified By	Date	
1	Date (Islote, (2 co. 1.6)	Y	per	7/2/13	
2		<b>Y</b>			
3		У			
4	, , , , , , , , , , , , , , , , , , ,	У			
.5	\(\)	ý			
6		<u> </u>			
7		y			
8	V	, Y			
9	V	<b>Y</b>			
10	<b>Ý</b>	У		1	
11	V	У	1/50	7/2/13	
12	<b>Y</b>	Y			
13	V	<i>Y</i>			
14	¥	<i>Y</i>			
15	V	<i>Y</i>			
16	· · · · · · · · · · · · · · · · · · ·	Y			
17	V	Y			
18	Y	, y			
19	Y	\( \( \)			
20	Y	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,		
21	У	y			
22	У	·y			
23	y	Y			
24	Ý	Y		1	
25	· ·	У	150	7/2/13	
Commen	ISS A	· · · · · · · · · · · · · · · · · · ·			

Reviewed By

Date:



Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13-VAL-RIQ-101

Owner: Patrick Owen Revision: 0

Effective Date: May 21, 2013 Page: 12 of 15



### CALIBRATION VERIFICATION

Equipment	Serial #	Calibration Date	Calibration Due Date	Verified By	Date
Scale	5639 1685 HL	6/13/13	7/13/13	PST	7/2/13
Multimeter	155001001	ar menufacture	N/A	P-30	6/10/13

Reviewed By:

Date:

Controlled Document



## Validation Protocol

Number: E13-VAL-RIQ-101 Title: Carton Machine 1 IQ/OQ/PQ Protocol

Revision: 0 Owner: Patrick Owen

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## ATTACHMENT I - PROTOCOL DEVIATION REPORT LOG

Log each Protocol Deviation Report in the table below. Attach the PDRs to this Attachment.

PDR#	DESCRIPTION	DATE INITIATED	DATE RESOLVED
5.00 B. B. S.	The Control of the Co		
			And the state of t
	·		
,			
		,	
Comments:			



## Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol

Number: E13-VAL-RIQ-101

Owner: Patrick Owen

Revision: 0

Effective Date: May 21, 2013

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## ATTACHMENT II. PROTOCOL DEVIATION REPORT (PDR)

General Information							
System Name:	Protocol Number:						
Deviation Report Number	er:Protocol Step & Page No.:						
	Instructions						
<ol> <li>The validation specialist assigns a sequential report number for each deviation with a specific protocol. For example, 001, 002, etc. can be easily referenced in a report.</li> </ol>							
2. Reference the re	Reference the relevant protocol number, step and page number of the noted deviation above.						
3. Complete the be	Complete the below listed sections. If necessary, use additional pages and attach any supporting info.						
<ol> <li>Include the original PDR(s) with the protocol as an attachment. Summarize the impact of the deviation in the Report.</li> </ol>							
Description of Deviation							
Investigation Evaluation	and Results:						
Corrective Action and Re	esolution:						
Overall Investigation Rev	view:						
Prenared Bv	Date:						
i iopaioa by.							



## Validation Protocol

Title: Carton Machine 1 IQ/OQ/PQ Protocol Number: E13

Owner: Patrick Owen

Effective Date: May 21, 2013

Number: E13-VAL-RIQ-101
Revision: 0

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### ATTACHMENT III - SIGNATURE IDENTIFICATION LOG SHEET

Identify in the table below any personnel involved in the execution of this protocol.

Name	Affiliation	Signature	Initial	Date
Patrick Owen	Prouse Engineer	Hessell	PET	6/10/13
Parou Vainho	Prouse Engineer allity Assoc.	Damk Vale	BV	7-8-13
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