New Jersey Department of Environmental Protection Reason for Application

Permit Being Modified

Permit Class: Number: 0

Description of Modifications: Donjon Marine Co., Inc. currently operates a Dredge Materials Processing Facility at Berth 36, Port Newark under PI 08045 PCP240001. The Department has recently reviewed and granted a Modification for that permit for the installation of two new fabric filter baghouses to replace the old original units, which significantly lowers the emissions from the portland cement transfer operation. The Port Authority of NY & NJ has requested that the facility be relocated to Berths 20/22 in early 2026. All of the existing equipment will be relocated to this portiion of the Port Newark site at that time. No changes will be made to the equipment or operation. The present operation is expected to shut down at the end of 2025. All equipment will then be relocated to the Berth 20/22 site. At the time the facility shuts down at Berth 36, a request to terminate Permit # 08045 PCP240001 will be filed.

New Jersey Department of Environmental Protection Facility Profile (General)

Facility Name (AIMS): Donjon Marine Dredge Processing Facility Re Facility ID (AIMS): 09629

Street DONJON MARINE CO, INC Address: DREDGE MATERIALS PROCESSING FACILIT BERTHS 20/22 PORT NEWARK, NJ 07114

Mailing DONJON MARINE CO, INC Address: 100 CENTRAL AVE HILLSIDE, NJ 07205 State Plane Coordinates:X-Coordinate:74Y-Coordinate:41Units:Dec. Deg.Datum:NAD83Source Org.:Other/UnknownSource Type:Center of Facility

County: Essex Location Berths 20/22 Port Newark Description: Industry: Primary SIC: Secondary SIC: NAICS: 237990

Donjon Marine Dredge Processing Facility Relo (09629)

New Jersey Department of Environmental Protection Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Donjon Marine Co., Inc. Name: Kerri K. Mullins Title: Facility Manager Phone: (908) 964-8812 x Fax: (908) 964-7426 x Other: (908) 482-5367 x Type: Mobile Email: kerri.mullins@donjon.com **Org. Type:** Corporation **NJ EIN:** 00221844615

Mailing100 Central AvenueAddress:Hillside, NJ07205

Contact Type: Consultant

Organization: Kenneth L. Woodruff Name: Kenneth L. Woodruff Title: Principal Consultant Phone: (215) 736-2194 x Fax: () - x Other: (215) 499-3690 x Type: Mobile Email: kwood@bellatlantic.net
 Org. Type:
 Proprietor

 NJ EIN:
 00232300761

Mailing1589 Big Oak RoadAddress:#174Yardley, PA19067

Contact Type: Fees/Billing Contact

Organization: Donjon Marine Co., Inc. Name: Kerri K. Mullins Title: Facility Manager Phone: (908) 964-8812 x Ma Fax: (908) 964-7426 x Add Other: (908) 482-5367 x Type: Mobile Email: kerri.mullins@donjon.com **Org. Type:** Corporation **NJ EIN:** 00221844615

Mailing100 Central AvenueAddress:Hillside, NJ07205

Donjon Marine Dredge Processing Facility Relo (09629)

New Jersey Department of Environmental Protection Facility Profile (General)

Organization: Donjon Marine Co., Inc. Name: Kerri K. Mullins Title: Facility Manager Phone: (908) 964-8812 x

 Fax:
 (908) 964-7426 x

 Other:
 (908) 482-5367 x

Type: Mobile

Email: kerri.mullins@donjon.com

Org. Type:	Corporation
NJ EIN:	00221844615

Mailing100 Central AvenueAddress:Hillside, NJ07205

Contact Type: Operator

Organization: Donjon Marine Co., Inc. Name: Kerri K. Mullins Title: Facility Manager Phone: (908) 964-8812 x Fax: (908) 964-7426 x Other: (908) 482-5367 x Type: Mobile Email: kerri.mullins@donjon.com
 Org. Type:
 Corporation

 NJ EIN:
 00221844615

Mailing100 Central AvenueAddress:Hillside, NJ07205

Contact Type: Responsible Official

Organization: Donjon Marine Co., Inc. Name: John A. Witte, Jr. Title: President Phone: (908) 964-8812 x Fax: (908) 964-7426 x Other: () - x Type: Email: john.witte@donjon.com Org. Type: Corporation NJ EIN: 00221844615

Mailing100 Central AvenueAddress:Hillside, NJ07205

New Jersey Department of Environmental Protection Facility Profile (Permitting)

1.	Is this facility classified as a small business by the USEPA?	Yes
2.	Is this facility subject to N.J.A.C. 7:27-22?	No
3.	Are you voluntarily subjecting this facility to the requirements of Subchapter 22?	No
4.	Has a copy of this application been sent to the USEPA?	No
5.	If not, has the EPA waived the requirement?	No
6.	Are you claiming any portion of this application to be confidential?	No
7.	Is the facility an existing major facility?	No
8.	Have you submitted a netting analysis?	No
9.	Are emissions of any pollutant above the SOTA threshold?	No
10). Have you submitted a SOTA analysis?	No
11 a \$. If you answered "Yes" to Question 9 and "No" to Question 10, explain why SOTA analysis was not required	

12. Have you provided, or are you planning to provide air contaminant modeling? No

New Jersey Department of Environmental Protection Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	Pneumatic Co	Pneumatic Conveyor	Manufacturing and Materials Handling Equipment		1/15/2026	No		
E2	Screw Conv	Screw Conveyor	Manufacturing and Materials Handling Equipment		1/15/2026	No		
E3	Mixer	Mixer	Manufacturing and Materials Handling Equipment		1/15/2026	No		

New Jersey Department of Environmental Protection Control Device Inventory

CD NJID	Facility's Designation	Description	СД Туре	Install Date	Grand- Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	Baghouse #1	Fabric Filter	Particulate Filter (Baghouse)	1/15/2026	No		
CD2	Water Spray	Water Spray	Other	1/15/2026	No		
CD3	Baghouse #2	Fabric Filter	Particulate Filter (Baghouse)	1/15/2026	No		

Donjon Marine Dredge Processing Facility Relo (09629)

New Jersey Department of Environmental Protection Emission Points Inventory

PT NUD	Facility's	Description	Config.	Equiv.	Height (ft.)	Dist. to	Dist. to Exhaus	t Temp.	(deg. F)	Exhaust Vol. (acfm)		Discharge		
NJID	Designation			(in.)		Line (ft)	Avg.	Min.	Max.	Avg.	Min.	Max.	Direction	Set ID
PT1	Baghouse #1	Baghouse No. 1 Stack	Round	16	16		68.0	40.0	100.0	2,818.0	2,818.0	2,818.0	Up	
PT2	Baghouse #2	Baghouse No. 2 Stack	Square	15	16		68.0	40.0	100.0	2,000.0	2,000.0	2,000.0	Up	
PT3	Mixer	In-Situ Mixing	Surface	52	5		90.0	80.0	100.0	30.0	30.0	30.0	Up	

Date: 3/6/2025

Donjon Marine Dredge Processing Facility Relo (09629)

New Jersey Department of Environmental Protection Emission Unit/Batch Process Inventory

U 1 Mixing Dredged Material In-Situ Mixing in Barge

UOS	Facility's	UOS	Operation	Signif.	Control	Emission	SCC(a)	Annual Oper. Hours	VOC	Fl (ac	low cfm)	Ter (de	np. g F)
NJID	Designation	Description	Туре	Equip.	Device(s)	Point(s)	SCC(8)	Min. Max.	Range	Min.	Max.	Min.	Max.
OS1	Cement Trans	Prtland Cement Pneumatic Conveying System	Normal - Steady State	E1	CD1 (P)	PT1	3-05-101-02	500.0 2,000.)	2,818.0	2,818.0	40.0	100.0
OS2	Screw Convey	Portland Cement Screw Conveyor	Normal - Steady State	E2	CD3 (P)	PT2	3-05-101-02	500.0 2,000.)	2,000.0	2,000.0	40.0	100.0
OS3	Normal Mixin	Normal Operation of In-Situ Mixing in Barge	Normal - Steady State	E3	CD2 (P)	PT3	3-99-999-89	500.0 2,000.)	30.0	30.0	40.0	100.0

09629 Donjon Marine Dredge Processing Facility Relo

Date: 3/6/2025

New Jersey Department of Environmental Protection Potential to Emit

Subject Item: U1 Mixing

Operating Scenario: OS0 Summary

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)	0.25000000			0.25000000	tons/yr	No
Mercury Emissions	D			0.00000000	tons/yr	No
Pb	D			0.00000000	tons/yr	No
PM-10 (Total)	1.16000000	16.22000000	0.07670000	1.23670000	tons/yr	No
PM-2.5 (Total)	1.16000000	16.22000000	0.07670000	1.23670000	tons/yr	No
TSP	1.16000000	16.22000000	0.07670000	1.23670000	tons/yr	No
VOC (Total)				0.6000000	tons/yr	No

Subject Item: U1 Mixing

Operating Scenario: OS1

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Arsenic Emissions	0.00000000	0.00012600	D	D	lb/hr	No
Beryllium Emissions	0.00000000	0.00000134	D	D	lb/hr	No
Chromium Emissions	0.00000000	0.00001890	D	D	lb/hr	No
СО					lb/hr	No
HAPs (Total)					lb/hr	No
Manganese Emissions	0.00000000	0.01520000	D	D	lb/hr	No
Nickel Emissions	0.00000000	0.00132000	D	D	lb/hr	No
NOx (Total)					lb/hr	No
Pb	0.00000000	0.00005370	D	D	lb/hr	No
PM-10 (Total)	0.00000000	9.50000000	0.00950000	0.00950000	lb/hr	No
PM-2.5 (Total)	0.00000000	9.50000000	0.00950000	0.00950000	lb/hr	No

09629 Donjon Marine Dredge Processing Facility Relo

Date: 3/6/2025

New Jersey Department of Environmental Protection Potential to Emit

Subject Item: U1 Mixing

Operating Scenario: OS1

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
SO2					lb/hr	No
TSP	0.00000000	9.50000000	0.00950000	0.00950000	lb/hr	No
VOC (Total)					lb/hr	No

Subject Item: U1 Mixing

Operating Scenario: OS2

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Arsenic Emissions	0.00000000	0.00012600	D	D	lb/hr	No
Beryllium Emissions	0.00000000	0.00000134	D	D	lb/hr	No
Chromium Emissions	0.00000000	0.00001890	D	D	lb/hr	No
Manganese Emissions	0.00000000	0.01520000	D	D	lb/hr	No
Nickel Emissions	0.00000000	0.00132000	D	D	lb/hr	No
Pb	0.00000000	0.00005370	D	D	lb/hr	No
PM-10 (Total)	0.00000000	6.72000000	0.06720000	0.06720000	lb/hr	No
PM-2.5 (Total)	0.00000000	6.72000000	0.06720000	0.06720000	lb/hr	No
TSP	0.00000000	6.72000000	0.06720000	0.06720000	lb/hr	No

09629 Donjon Marine Dredge Processing Facility Relo

Date: 3/6/2025

New Jersey Department of Environmental Protection Potential to Emit

Subject Item: U1 Mixing

Operating Scenario: OS3

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)	0.25000000			0.25000000	lb/hr	No
Mercury Emissions	D			D	lb/hr	No
Pb	D			D	lb/hr	No
PM-10 (Total)	1.16000000			1.16000000	lb/hr	No
PM-2.5 (Total)	1.16000000			1.16000000	lb/hr	No
TSP	1.16000000			1.16000000	lb/hr	No
VOC (Total)	0.60000000			0.60000000	lb/hr	No

000000 E1 (Manufacturing and Materials Handling Equipment) Print Date: 3/6/2025

-

Manufacturer: Model: Type of Manufacturing and Materials Handling Equipment: Pneumatic Conveying System Capacity: 7.50E+01 other units Description (if other): Tons per Hour Have you attached a diagram showing the location and/or the configuration of this equipment? Yes \mathbf{T} Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Yes

▼

Comments:

Make:

Units:

000000 E2 (Manufacturing and Materials Handling Equipment) Print Date: 3/6/2025

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

	1
	1
Screw Conveyor	
7.50E+01	
other units	
Tons per Hour	
r	





000000 E3 (Manufacturing and Materials Handling Equipment) Print Date: 3/6/2025

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

Lang Tool Co.	
LTC Series IV Blending Head	
Mixing Head on Hydraulic Excavator	
1.00E+03	
other units	-
Tons per Hour	
Yes 💌	

Yes	▼

000000 CD1 (Particulate Filter (Baghouse)) Print Date: 3/6/2025

Make:	Donaldson Torit
Manufacturer:	Donaldson Torit
Model:	118 RFWH 8AW
Number of Bags:	118
Size of Bags (ft ²):	10.41
Total Bag Area (ft ²):	1,228.0
Bag Fabric:	Dura-Life Polyester
Fabric Weight (oz/ft²):	16.00
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	275.0
Maximum Design Air Flow Rate (acfm):	2,818.0
Draft Type:	Induced 💌
Maximum Air Flow Rate to Cloth Area Ratio:	2.29
Minimum Operating Pressure Drop (in. H2O):	1.00
Maximum Operating Pressure Drop (in. H2O):	6.00
Method of Monitoring Pressure Drop:	Magnehelic Gage
Maximum Inlet Temperature (°F):	100.0
Minimum Inlet Temperature (°F):	30.0
Dew Point of Gas Stream Maximum Inlet	
Maximum Operating Exhuast Gas Flow	2.949.0
Maximum Inlet Gas Stream Moisture	2,010.0
Method for Determining When Reg	Operating Pressure pearing 6.0 inches water gauge
Replacement is Required:	consistently after cleaning cycle.
Method for Determining When Cleaning is Required:	Timer
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line? Maximum Number of Sources Using	Yes No
this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Monitoring Pressure gage and visual observation of exhaust.
Have you attached a Particle Size Distribution Analysis?	Ves No

000000 CD1 (Particulate Filter (Baghouse)) Print Date: 3/6/2025

Have you attached data from recent performance testing?	Ves No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
	🔵 Yes 🔵 No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
	Yes No
Comments:	Unit was custom designed for this application. Vendor documents indicate emissions are no greater than 0.004 grains/dscf.

000000 CD2 (Other) Print Date: 3/6/2025

	FIIII Date. 3/0/2023
Make:	
Manufacturer:	
Model:	Water Spray System
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (°F):	
Minimum Temperature of Vapor Stream to Control Device (°F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual Inspec
Have you attached data from recent performance testing?	Ves No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
	Ves No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	Ves No
Comments:	Water Spray System consists of 6 nozzles located at discharge end of a totally enclosed telescopic tube which injects portland cement into a barge of dredge material which is typically 50% moisture content. Spray nozzles are each capable of 2 gpm of waer flow. Minimum water flow rate to be 6 gpm and increased as necessary to 12 gpm total flow.

000000 CD3 (Particulate Filter (Baghouse)) Print Date: 3/6/2025

Make:	Donaldson Torit
Manufacturer:	Donaldson Torit
Model:	DLMV 18/15 Type F
Number of Bags:	12
Size of Bags (ft ²):	16.70
Total Bag Area (ft ²):	194.0
Bag Fabric:	Dura-Life Polyester
Fabric Weight (oz/ft²):	9.40
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	275.0
Maximum Design Air Flow Rate (acfm):	2,000.0
Draft Type:	Induced 💌
Maximum Air Flow Rate to Cloth Area Ratio:	10.31
Minimum Operating Pressure Drop (in. H2O):	1.00
Maximum Operating Pressure Drop (in. H2O):	6.00
Method of Monitoring Pressure Drop:	Digital Pressure Gage
Maximum Inlet Temperature (°F):	100.0
Minimum Inlet Temperature (°F):	30.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	2,000.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Operating Pressure approaches 6.0 inches even after bag cleaning cycle.
Method for Determining When Cleaning	Automatic Proceuro Songor
is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line? Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	Yes No
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	1 Visual Observation
Have you attached a Particle Size Distribution Analysis?	Yes No

000000 CD3 (Particulate Filter (Baghouse)) Print Date: 3/6/2025

Have you attached data from recent performance testing?	Ves No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
	Ves No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
	Yes No
Comments:	Unit was custom designed for this application. Vendor documents indicate emissions are no more than 0.004 grains/dscf.

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS1 (Raw Materials) Print Date: 3/6/2025								
Raw Material	CAS Number	Physical State	Molecular Weight (Ibs/Ibs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Arsenic compounds	r	Solid 🗸		No 🔻	0.01			-
Beryllium compounds	-	Solid 🗸		No 💌	0.01			-
Chromium compounds	Z	Solid 🗸		No	0.01			-
Lead compounds	-	Solid 👻		No 👻	0.01			•
Manganese compounds	-	Solid 🗸		No 💌	0.01			T
Nickel compounds	-	Solid 🗸		No 🔻	0.01			-
Portland Cement	65997-15-1	Solid 🗸		No 🔻	99.90			-

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS1 (Gas Flow) Print Date: 3/6/2025

Volume of Gas Discharged from this source (acfm):

2,818.00

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS1 (Efficiency Table - C Print Date: 3/6/2025							
Pollutant Category		Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)			
00	▼						
HAP (Total)	▼	100.00	99.99	99.99			
10x	▼						
Other (Total)	▼						
b	▼						
PM-10	▼	100.00	99.99	99.99			
PM-2.5	▼	100.00	99.99	99.99			
SO2	▼						
SP	▼	100.00	99.99	99.99			
/OC (Total)	-						

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS2 (Gas Flow) Print Date: 3/6/2025

Volume of Gas Discharged from this source (acfm):

2,000.00

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS2 (Raw Materials) Print Date: 3/6/2025								
Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Arsenic compounds	-	Solid 🗸		No 🔻	0.01			-
Beryllium compounds	-	Solid 🗸		No 🔻	0.01			-
Chromium compounds	-	Solid 🗸		No 🔻	0.01			•
Lead compounds	-	Solid 🗸		No 👻	0.01			•
Manganese compounds	-	Solid 🗸		No 💌	0.01			•
Nickel compounds	-	Solid 🗸		No 🔻	0.01			-
Portland Cement	✓ 65997-15-1	Solid 🗸		No 🔻	99.90			-

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS2 (Efficiency Table - Print Date: 3/6/2025							
Pollutant Category		Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)			
00	\mathbf{T}						
HAP (Total)	▼	100.00	99.99	99.99			
VOx	▼						
Other (Total)	▼						
Ър	▼						
PM-10	▼	100.00	99.99	99.99			
PM-2.5	▼	100.00	99.99	99.99			
SO2	▼						
rsp	▼	100.00	99.99	99.99			
/OC (Total)	-						

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS3 (Raw Materials) Print Date: 3/6/2025									
Raw Material	CAS Number	Physical State	Molecular Weight (Ibs/Ibs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units	
Dredge Material		Sludge 👻		•	92.00			-	
Portland Cement		Solid 🗨		No 🔻	8.00			-	

09629 Donjon Marine Dredge Processing Facility Relo PCP000000 U1 OS3 (Gas Flow) Print Date: 3/6/2025

Volume of Gas Discharged from this source (acfm):

30.00



BERTH 36 TO BERTHS 20 & 22

BLOCK 6000, LOT 10,01

CITY OF NEWARK, ESSEX COUNTY, NEW JERSEY

	SHEET INDEX					
	Sheet Number	Sheet Title				
	1	COVER SHEET				
_	2	EXISTING CONDITIONS AND DEMOLITION PLAN				
_	3	LAYOUT AND DIMENSION PLAN				
	4	GRADING DRAINAGE AND UTILITY PLAN				
	5	GRADING PROFILES				
	6	SOIL EROSION AND SEDIMENT CONTROL PLAN				
	7	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS				
	8	CONSTRUCTION DETAILS				
	9	CONSTRUCTION DETAILS 2				
	10	TANKER HOLD DOWN				
	11	ACCESS ROAD PROFILE				
	12	ACCESS ROAD CROSS SECTIONS 1				
	13	ACCESS ROAD CROSS SECTIONS 2				

PORTIONS THEREOF, WITHOUT THE WRITTEN PERMISSION OF FRENCH & PARRELLO ASSOCIATES, PA IS PROHIBITE

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LOCATION KEY MAP SCALE : 1"=1.000'±

GENERAL NOTES:

THE PROPERTY IS KNOWN AS BLOCK 6000, LOT 10.01, AS SHOWN ON THE TAX MA

NJDEP ELECTRONIC APPROVAL STAM

- MAP INFORMATION WAS OBTAINED FROM A PLAN GRAPHIC SURVEY PREPARED FOR BERTHS 20 & 22 P on of lot 10.01 block 6000, Strukted In the Gity of TY, NEW JERSEY PREPARED BY FRENCH & PARRELLO AS JARY 29, 2024. COUNTY
- NO 2 FER N.L.C. 7:12-3:40 WK SEED TOELINGAT THE NOO M-2004 A DESCE R.COX ELEVATOR'S BEED OF TRUE NOO MENNANCE CHAT MAR EL 159 OF 200, DATED FREUMINARY WAY 30, 2014, MAP NUMBER JOSCUSSI, THE FORCERT IS WITH JOE AC ELEVATION 11 AND ELEVATION THERFORMET WARE SEMERAL ELEVATION THAT DE SEMERAL DESCH R.COX ELEVATION THE ROPERTY WARE SEMERAL ELEVATION THAT DE SEMERAL DESCH R.COX ELEVATION
- HORIZONTAL AND VER'TICAL DATUM REFERENCED ON THIS PLA OBSERVATIONS AND ARE RELATIVE TO NAD 83/MAVD TICAL DATUM CONVERSION: NGVD 1929 = NAVD 1988 + 1.1'
- ALL STORAGE CONTAINERS AND TOOL SHEDS SHALL BE ELEVATED TO BE AT ELEVATION 13.0, 1 FOOT ABOVE THE FHA ELEVATION, USING CINDER BLOCKS AND/OR MILLINGS.

2 1 Ma	10/15/2024 09/12/2024 Date	REVISED FOR ILLEP COMMONS DATED 9/9/2024 REVISED FOR ILLEP COMMONS DATED 9/9/2024 REVISED FOR ILLEP COMMONS DATED 9/9/2024	OFE OFE Revised By	BF BF Checked By	CONTRACTOR A CARDINAL OF THE STATE OF THE ST	RELOCATI	COVE DONJON MA ON OF DREDG PORT I BERTH 36 TO BLOCK 60 PORT NEW ESSEX COUNT	R SHEET OR EINE CO., INC. PROCESSING AT NEWARK BERTHS 20 822 DO, LOT 10.01 ARK, NEWARK Y. NEW JERSEY	OPERATION
		1,000 0 1,000 2,00	0			DATE: 03/12/2024	DESIGNED ON	SCALE)	PROJECT NUMBER:
		SCALE IN FEET			ERIC C. BETZ, PE PROFESSIONAL ENGINEER, NJ LIC. No. 24GE64636800	DRAWN BR	CHECKED BY	NELD BOOK	SHEET: 1 er 13







Patrick.Mahoncy@Donaldson.com 52 Oak Street Harrington Park, NJ 07640 Tel. (201) 750-2616 Fax (952) 698-4883

CD-1 (B-56-50 #1)

QUOTATION # PM-022422 Rev 1

March 2, 2022

Donjon Marine Co Berth 5 Corbin St. Newark, NJ 07114

Ms. Kerri Mullins (908) 964-8812 kerri.mullins@donjon.com

Requested Quotation for pneumatic conveying of concrete material from (2) pigs simultaneously, each with a 5" connection conveying at 15 psi

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Donaldson Company, Inc. (NYSE: DCI) is a leading worldwide provider of filtration products and replacement parts. Since 1915, we have continuously advanced our innovative technology, developed strong customer relationships, and broadened our geographic presence to meet the diverse and changing needs of our customers. The acquisition of Torit® Company in the early 1970s propelled Donaldson into the dust collection business, which was further expanded with the acquisitions of the Day Division of Carter-Day (1987), Aercology (1997), DCE (2000) & LMC WEST (2008). Our industrial air filtration technology is applied across all industries and environments, including but not limited to: metalworking, pharmaceutical processing, woodworking, chemical processing, mining, foundries, food processing and composites.

Donaldson[®] Torit[®] is pleased to recommend our Torit RFWH all welded dust collector, Model 118 RFWH 8 AW, to meet the needs of your pneumatic conveying through (2) of (4) 5[°] lines at 15 PSI, of concrete operation. The 118 RFWH 8 AW is selected to filter <u>2818 cfm</u> of dust laden air at a temperature of 70°F,

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containing Cement dust produced in the operation. The collector will be installed in Newark, NJ 07114 at an elevation of 30 feet above sea level, and operate 8 hours per day, 5 days per week.

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How the Torit RFWH All-Welded Series Works

Walk-in clean air plenum with 24" x 72" hinged access door provides clean side access to bags and cleaning mechanism.

Filter bags are automatically cleaned via medium pressure air (7.5 psig max) provided by a positive displacement rotary blower. An accumulator tank, diaphragm valve and rotating cleaning arm deliver cleaning air to the bags. Filter cleaning is initiated by a solid state timer.

All welded conical 60-degree hopper with 24" diameter bolted access door and standard 24" diameter flanged outlet.



Explosion Protection Retrofit Notice: The unit configuration quoted may not support the addition of explosion protection systems commonly used when filtering combustible dusts. Before ordering any filtration equipment you must understand the nature of your dust and any fire or explosion protection strategies you intend to incorporate into your filtration equipment.

Torit 118 RFWH 8 AW - Technical Product Summary

 HOUSING CONSTRUCTION: All-welded 7-to-12-gauge steel housing construction rated for + or -20" w.g. Tubesheet constructed of ¼" plate steel. Units produced at our Stockton facility will have a bolted together flange which holds the dirty air plenum and clean air plenum together at

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the tubesheet. Includes one inlet plate with (4) drilled flange 5" connections into the high body inlet with self-sacrificing deflection baffles.

- PAINT SYSTEM PREMIUM DUTY FINISH: Exterior surfaces finished with a durable, multicoat textured liquid or powder finish that meets an ASTM B117 salt spray test of 3,000 hours on standardized test panels. The exterior color will be Torit Blue. The interior shall be primed with a durable liquid or powder primer.
- HOPPER TRANSITION: Generic spool piece to match customer specified rotary valve.
- LEG EXTENSIONS FOR SUPPORT LEG STRUCTURE: Provides 129.5" clearance below Hopper Discharge Flange to accmodate the 35" tall airlock feeder and the screw conveyor with transition
- FILTER BAGS AND SUPPORT CAGES: (118) 8 ft. Dura-Life[™] filter bags with standard Boltsafe[™] hardware provide 1,228 square feet of media for 2,818 cfm airflow. Operating Temperature: 275°F maximum.
- MANIFOLD DRIVE MOTOR: 1/3 HP TEFC rotating cleaning arm motor.
- CLEANING CONTROL: Solid-state timer board in a NEMA Type 4 enclosure provides continuous filter cleaning.
- CLEANING CONTROL: Dwyer Magnehelic[®] gauge measures filter resistance to provide a visual display of filter change requirements. Pressure taps are installed on the dust collector and the hoses are shipped loose.
- PD BLOWER ASSEMBLY: Heavy duty positive displacement rotary blower with 3 HP TEFC motor.
- 6" diameter hopper service port allows for easy access to hopper.
- Hopper level indicator mounting pack allows installation of high level indicator to signal if materials are collecting in the hopper.
- High level indicator is a Capacitance Point Level Bin Monitor which can be used to signal if materials are collecting in the hopper.
- CLEAN AIR OUTLET: Round clean air outlet to accommodate the 7 ½ HP fan inlet flange.
- PLATFORM & LADDER: Mild steel ladder and platform to access clean air plenum. Platform has anchor for ladder safety system. Ladder is designed to accept ladder safety system. (Ladder safety system to be ordered separately.)

Unique Features of the Torit RFWH AW Series

THE STANDARD RF MODEL: 118 RFWH 8 AW is a rugged collector that handles heavy dust loads and large volumes of air more effectively than any collector on the market. The small footprint of the RF combines a cyclone pre-cleaner and baghouse into one unit. It features a powerful yet energy-efficient cleaning system, eliminating the need for compressed air to clean the bags. Combined with the revolutionary Dura-Life[™] "Twice the Life"</sup> filter bags, the award-winning RF gets the job done while using much less energy than competitor collectors. Side by side, no other baghouse provides more performance than the Donaldson Torit RF baghouse collector.





HIGH INLET DESIGN: For applications with abrasive, or light and fluffy dusts, the optional high body inlet may be preferred. For abrasive applications, this inlet has self sacrificing baffles which slow the dust particles down before they reach the dirty air plenum to reduce abrasion on the bags and the collector. For light and fluffy dusts this inlet reduces upward airflows to help force the dust into the hopper and to reduce dust reentrainment and bridging.

DURA-LIFE[™] FILTER BAGS: Dura-Life bags are made with polyester fibers that are hydro-entangled together to provide a more uniform surface with smaller pores which results in bags that provide better surface loading, lower pressure drop and longer bag life. Dura-Life bags also provide 30% fewer emissions than standard 16 oz polyester bags based on PM 2.5 testing. For more information on Dura-Life, please

visithttp://www2.donaldson.com/torit/corp/pages/products/duralifefiltermediatechnology.aspx

MEDIUM PRESSURE CLEANING SYSTEM: Rather than using expensive compressed air to clean the bags which can result in freeze-up in cold climates, the RF provides a positive displacement blower located on the ground to fill an air tank in the clean air plenum. A timer released pulse of air travels into a rotating arm so that non-adjacent filter bags are cleaned to reduce dust re-entrainment. In addition to providing superior cleaning, the RF cleaning system uses 50% less energy than similarly sized reverse air units and 62% less than collectors using compressed air for cleaning.









BOLTSAFE[™] CAGES: The RF comes standard with Boltsafe cages which hold the bags and cages firmly in place in the tubesheet to eliminate the chance of collisions with the cleaning arm. Bolts are captive to the cage so they can't be dropped and bag replacement is easy with a screw gun. Boltsafe cages also serve to ground the cages to the tubesheet.



Donaldson Company, Inc. | Industrial Air Filtration | PO Box 1299 | Minneapolis MN 55440-1299 USA Subject to Attached Terms and Conditions, and Disclaimers Torit RFWH AW Series Service Requirements

 ELECTRIC REQUIREMENTS: 460/60/3 phase primary electrical supply to control panel (wiring between panel and individual components by others). Consumption: 7 ½ HP Premium Efficiency Blower Motor 11 FLA; 5 HP Meyer Feeder Airlock Motor 7.6 FLA. <u>Donaldson[®] Torit[®]</u> is pleased to recommend our <u>Torit TBI</u> Fan, **TBI-7.5 60 CYCLE FAN**, to meet the needs of your concrete pneumatic conveying operation. The TBI-7.5 60 CYCLE FAN is selected to provide 2818 ACFM of air, at a static pressure of 9.6" wg, and at a temperature of 70°F. The fan will be installed in Newark, NJ 07114 at an elevation of 30 feet above sea level, and operate 8 hours per day, 5 days per week.

How the Torit TBI Series Fan Works

The Torit Backward Inclined (TBI) Fans provide a convenient, cost-effective method of integrating a high efficiency fan with a Donaldson[®] Torit[®] dust collector. The fan housing mounts directly to the clean-air plenum of the dust collector, eliminating costly transition ducting and reducing the footprint of the overall system. The direct-drive operation eliminates maintenance of the fan bearings and belts.



Explosion Protection Retrofit Notice: The unit configuration quoted may not support the addition of explosion protection systems commonly used when filtering combustible dusts. Before ordering any filtration equipment you must understand the nature of your dust and any fire or explosion protection strategies you intend to incorporate into your filtration equipment.

Torit TBI-7.5 60 CYCLE FAN - Technical Product Summary

- FAN HOUSING CONSTRUCTION: Continuously welded mild steel (not stamped) fan housing with 4HM motor mount arrangement for clockwise wheel rotation. Air inlet cone is mounted internal to the fan housing. Integrated backward inclined fan wheel is designed to meet Class III conditions. Minimum construction includes a 12-gauge shroud, 7-gauge back plate, and 10-gauge blades. Computer balanced fan and motor assembly ensures vibration-free operation. Shipped as a major assembly; required mounting hardware for quick and easy installation is included. Standard maximum operating temperature is 120°F / 50°C.
- Standard NEMA premium 7 1/2 HP, 460 volt, 60-cycle, 3-phase, direct-drive TEFC motor operates at 3,450 rpm.
- HIGH PERFORMANCE SILENCER: Exhaust silencer is fabricated of painted galvanized steel and is lined with sound absorbing material. 7 1/2 hp Fan assembly with silencer provides air noise reduction to 83 db(A) at AMCA position 3 @ 1.2 "wg. Delta P sound levels rated db(A) are an average of measurements made in a laboratory environment. Installed sound levels will vary depending on the measurement location, operating conditions, and installation.

Unique Features of the Torit TBI Fan Package

COMPLETE FAN PACKAGE: The TBI comes as a complete fan and motor package that is computer balanced to ensure vibration free operation. It is designed to mount directly to Donaldson Torit dust collectors to provide cost effective operation without cost ducting that is required for floor mounted fan packages. The TBI comes complete with all the hardware required for quick and easy installation.

BACKWARD INCLINED FAN WHEEL: Donaldson TBI fans come with a backward inclined wheel which provides high efficiency. This wheel is also nonoverloading which means the motor will not reach a high amp condition if the fan is operated under a no-load condition.

DIRECT DRIVE OPERATION: The TBI has a direct drive motor rather than a belt drive motor. This eliminates maintenance of fan bearings and belts.



Summary Scope of Supply

We are pleased to recommend the following Donaldson® Torit® equipment:

Desci	ription		Qty	Net Cost (USD)
118 R	FWH 8 AW continuous duty, bag filter dust collection system	CTREE CO	1	\$94,819.00
9	PREMIUM DUTY FINISH that passes a 3,000-hour salt spray test			
9	HOPPER TRANSITION TO MATCH the Meyer 26x26 rotary feeder valve inlet flange			
•	SUPPORT LEG EXTENSION for up to 132" clearance below the hopper			
٥	BAGS / CAGES: DURA-LIFE™ BAGS & BOLTSAFE HARDWARE			
ø	MANIFOLD DRIVE MOTOR: TEFC			
•	TIMER & ENCLOSURE: NEMA 4 W/ UL/CUL TIMERBOARD			
•	MAGNEHELIC GAUGE			
0	3 HP TEFC PD BLOWER (Air Pump) ASSEMBLY			
•	HOPPER SERVICE PORT (6" DIA) for maintenance access			
	HOPPER LEVEL INDICATOR MOUNTING PACK			
۰	HIGH LEVEL INDICATOR			
0	INLET: 118RF8 will have a bolt on inlet plate with (4) 5" diameter connections. Flange/fitting details to be provided with order			
•	CLEAN AIR OUTLET will have a flange that mates to the 7 ½ HP fan			
٥	RFW PLATFORM & LADDER that accommodates the leg extensions			
9	Federal OSHA standards now require all fixed ladders over 24 feet (installed after 11/19/2018) have ladder safety or fall protection systems installed, and OSHA no longer accepts cages as suitable fall protection for fixed ladders. For this reason, Donaldson supplied ladders are no longer provided with cages as a standard feature. Donaldson ladder designs will accept ladder safety or fall protection systems as required by OSHA. Since there are many ladder safety systems available to customers, Donaldson does not include a specific ladder safety or fall protection system as standard. We do offer an optional ladder safety system as a separate line item if the customer would like to purchase this from Donaldson.			
•	PLATFORM / LADDER: LADDER SAFETY SYSTEM			
۰	20' FOOT 3M LADDER CABLE KIT			
0	3M DBI-SALA DELTA Universal Body Harness			
v	PLATFORM / LADDER CAGE ONLY			
۰	HOUSING FEATURES: SS NAMEPLATE			
leyer 2	26x26 HDX rotary feeder	-	1	\$53.753.00
0	Flanged drop-through with cast iron housing and headplates			
•	8 vane mile steel rotor			
•	Closed end rotor with beveled tips			
0	Hard faced edges on Rotor Vane Tips and End Discs			
•	Design allowance based on 70 deg. F ambient temperature			

Donaldson Company, Inc. | Industrial Air Filtration | PO Box 1299 | Minneapolis MN 55440-1299 USA Subject to Attached Terms and Conditions, and Disclaimers

Lead time: 13 weeks after approval/acceptance Approximate weight:	Airlock: 2 118RFW	,800 lbs. H: 8,000 lbs.
	TOTAL:	\$175,725.00
 Optional Airlock upgrade from standard chrome to 0.005" machined chrome on housing bore only 	1	\$4,023.00
	TOTAL:	\$171,702.00
 BOTH BEACON AND ALARM HORN 		
STANDARD GRAPHIC PANEL		
 1/3 HP for the filter cleaning mechanism drive motor 		
 3 HP for the PD pump motor 		
• 5 HP MOTOR STARTER FOR the Mever rotany airlock feeder		
• IABEL PANEL - 11	1	\$16,660.00
RE Controls With VED 7 1/2 HP 450 Volt		0/0 000
• SILENCER - PREMIUM DUTY FINISH		
 7 ½ HP 3,450 TEFC 208-230/460/60/3 Premium Efficiency motor 		
TBI-7.5 60 CYCLE FAN	1	\$6,470.0
 Sized based on 150 tons/hr. and 70 PCF bulk density 		
 6.8 ft³/revolution (CFR at 100% pocket fill 		
 Neoprene flange gaskets 		
• Mile steel flange guard		
Meyer Standard Test Run, feeder & drive		
Enclosed Steel Drive Guard, Bae and Mounting		
 5 HP Premium efficiency Sever Duty Motor TEEC 230/460/60/3 		
Chain Drive at 15 RPM		
Special Meyer Enorgy Paint for outdoor installation		
Hard Chrome Voueing Pore anti-		
Regressable bearings		
 Air Purge controls mounted (F/R.G) with NEMA 4 115-60-1 solenoid 		
 Air Purge Shaft Seals with cast iron lantern rings 		
 Standard Graphite Impregnated Aramid Fiber Packing 		

FOB: RFW & fan with silencer: Nicholasville KY Airlock: Libertyville, IL

Freight:

Prepay & Add

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Thank you for the opportunity to present our solution for your project. If favored with your valued order, please reference our commercial information noted below.

REMIT TO ADDRESS:

Donaldson Company, Inc PO Box 207356 Dallas, TX 75320-7356

Federal Tax ID #: 41-0222640

www2.donaldson.com/torit

PAYMENT TERMS: Net 30 Days with approved credit FREIGHT: Pre-paid & added to invoice unless otherwise noted

Price does not include unit installation, freight cost, additional shipping and handling charges, taxes, electrical connections, ducting, and/or pneumatic connections unless stated above. Credit terms are Net **30** (upon credit approval). Quotation is valid until Friday March 11th, after which date the Donaldson equipment cost will increase 5%, unless otherwise noted.Cancellation or changes to an order once a purchase order has been accepted by Donaldson may result in additional charges. Subject to Donaldson Company Inc. General Terms and Conditions.

Looking forward to being of service.

Sincerely,

Patrick Mahoney District Manager



Patrick.Mahoney@Donaldson.com 52 Oak Street Harrington Park, NJ 07640 Tel. (201) 750-2616 Fax (952) 698-4883

CD-3 (Boghouse #2)

QUOTATION # PM-022522 Rev 1

March 2, 2022

Donjon Marine Co Berth 5 Corbin St. Newark, NJ 07114

Ms. Kerri Mullins (908) 964-8812 kerri mullins@donjon.com

Requested Quotation for the concrete screw conveyor and the clearing of the pigs



Type F with acoustic diffuser shown

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Donaldson Company, Inc. (NYSE: DCI) is a leading worldwide provider of filtration products and replacement parts. Since 1915, we have continuously advanced our innovative technology, developed strong customer relationships, and broadened our geographic presence to meet the diverse and changing needs of our customers. The acquisition of Torit[®] Company in the early 1970s propelled Donaldson into the dust collection business, which was further expanded with the acquisitions of the Day Division of Carter-Day (1987), Aercology (1997), DCE (2000) & LMC WEST (2008). Our industrial air filtration technology is applied across all industries and environments, including but not limited to: metalworking, pharmaceutical processing, woodworking, chemical processing, mining, foundries, food processing and composites.

<u>Donaldson[®] Torit[®]</u> is pleased to recommend our <u>Dalamatic Insertable</u> dust collector; **Model DLMV 18/15 TYPE F (H + K7 - 5HP INTEGRAL FAN)**, to meet the needs of your Material Handling (NOC) operation. The DLMV 18/15 TYPE F (H + K7 - 5HP INTEGRAL FAN) is selected to filter 2000 ACFM of dust laden air at a temperature of 70°F, containing Cement dust produced in the operation. The collector will be installed in Newark, NJ 07114 at an elevation of 30 feet above sea level, and operate 8 hours per day, 5 days per week.

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How the Dalamatic Insertable Series Works



Explosion Protection Retrofit Notice: The unit configuration quoted may not support the addition of explosion protection systems commonly used when filtering combustible dusts. Before ordering any filtration equipment you must understand the nature of your dust and any fire or explosion protection strategies you intend to incorporate into your filtration equipment.

Dalamatic Insertable DLMV 18/15 TYPE F (H + K7 - 5HP INTEGRAL FAN) - Technical Product Summary

- STANDARD HOUSING CONSTRUCTION: Housing is 14 ga formed steel construction. Seal frames (tube sheets) are reinforced 16 ga mild steel. Standard housing designed for continuous operation at -20" wg. internal housing pressure and a continuous operating temperature of 140F. The type F collector is fitted with a clean air plenum header and is fitted with an integral Fan designed for negative pressure applications. The fan is a K7, 5 HP, 460 Volts, 60 Hz, 3 Ph. Standard fan has TEFC motors with shaft mounted backward inclined fan wheels and discharges downward over the pulse hoses for weather protection.
- PAINT SYSTEM PREMIUM DUTY FINISH: Exterior surfaces finished with a durable, multi-coat textured liquid or powder finish that meets an ASTM B117 salt spray test of 3,000 hours on standardized test panels. The exterior color will be Torit Blue. The interior shall be primed with a durable liquid or powder primer.
- SEAL FRAME ASSEMBLY (TUBE SHEET): Reinforced 16 gauge mild steel. Provides 12 slots in for bags and inserts.
- FILTER INSERTS: Filter insets (bag cages) are constructed of wire mesh in a formed perimeter frame. Material of construction is mild steel with a clear trivalent chromate coating.

- FILTER MEDIA: 9.4 oz bi-component Dura-Life polyester felt filter elements with integral one piece felt seal. Maximum temperature for continuous operation 275 F.
- CONTROL BOX AND SOLENOID ENCLOSURE: Solid-state control with timer and solenoids in NEMA 4 electrical enclosure. Controls filter cleaning.
- STAINLESS STEEL TUBING FROM SOLENOID TO VALVE: Provides stainless steel tubing running from solenoids to diaphragms in place of standard black tubing.
- COMPRESSED AIR FILTER AND REGULATOR: Piggyback filter and regulator is single component with common ³/₄ " inlet and outlet that filters compressed air and allows regulation of compressed air pressure
- HOUSING ASSEMBLY (UPSTAND): Horizontal Upstand is a housing that lifts the entire collector up so the bags are not inserted in the process. The DLMV is mounted on the side of the horizontal upstand in way that the bags are removed horizontally.
- QUICK RELEASE: Filter clamps are over center manual clamps that facilitate rapid no tool filter removal and replacement.

Unique Features of the Dalamatic DLM V Series Collectors

The Dalamatic Insertable Dust Filter – the original insertable dust filter –is designed to deal with heavy dust burdens and high filtration velocities encountered in the conveying of particulate products. Simply inserted into a silo, it provides continuous filtration of conveying or displaced air and maintains a high collection efficiency at constant system resistance. The range of product sizes handles a wide variety of applications in the handling, processing and storage of dry bulk materials and powders.

Dalamatic Insertable collectors are designed to be inserted directly into silos, process hoods or custom enclosures.

The envelope shaped filters insures the maximum surface area in a small space making the DLM V one of the most compact filter units available and permit the collector to be installed with the filter elements vertical or horizontal to best fit the space requirements of the application.





DURA-LIFE™ FILTER BAGS: Dura-Life media felt is engineered with a unique hydro-entanglement process that uses water to blend the fibers. This process provides a more uniform material with smaller pores, better surface loading, and better cleaning. Comparatively, standard polyester felt bags are produced with a needling process that creates larger pores that allow dust to embed into the fabric, inhibiting cleaning and reducing bag life. Dura-Life advantages provide twice the operating life before bags need to be replaced due to increased pressure drop. Longer filter bag life lowers maintenance, reduces operating costs, and raises baghouse dust collection to a new level.

DURA-LIFE[™] FILTRATION PERFORMANCE: Dura-Life bags provide 30% fewer emissions than standard 16 oz polyester bags based on ASTM D 6830-02 testing. For more information on Dura-Life, please visit <u>http://www2.donaldson.com/torit/corp/pages/products/duralifefiltermediatechnology.aspx</u>



Dura-Life Bag-Clean Air Side (300x) Polyester Bag-Clean Air Side (300x)

These photos were taken with a scanning electron microscope of bag media used in a collector that was filtering fly ash. The bags were removed after 2,700 hours of use. Air-to-media ratio was 4.5 to 1. Pressure drop was 6 in. on polyester bags and 2 in. on Dura-Life.

Dalamatic Insertable Service Requirements

- COMPRESSED AIR CONSUMPTION: 4.2 scfm (based on a 25 second pulse interval) at 90 to 100 psig, clean, dry compressed air based on a 10 second pulse interval.
- ELECTRIC REQUIREMENTS: 460/60/3 phase primary electrical supply to control panel (wiring between panel and individual components by others).
 Consumption: 5 hp Premium Efficiency Blower Motor 10 FLA.

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Summary Scope of Supply

We are pleased to recommend the following Donaldson® Torit® equipment:

Descr	iption	Qty	Net Unit Co
DLMV filter, d	18/15 TYPE F (H + K7 - 5HP INTEGRAL FAN) Continuous duty, flat bag cleaning system	1	\$28,570.0
0	LITERATURE: Installation and Operation Manuals		
٥	LITERATURE: Replacement Parts List		
•	FINISH COAT: PREMIUM DUTY FINISH		
۰	SEAL FRAME ASSEMBLY (TUBE SHEET): STANDARD - MILD STEEL		
٥	INSERTS FOR BAGS: MILD STEEL POWDER COATED (0hr 12)		
٥	(12) FILTER BAGS: 194 ft² DURA-LIFE™ POLYESTER		
٠	CONTROL BOX W/TIMER: W/SOLENOIDS (NEMA 4 ENCL) (110 VAC), SS TUBING FROM SOLENOID TO VALVE		
•	COMPRESSED AIR PIGGYBACK FILTER & REGULATOR		
0	FAN ORIENTATION - TOP HORIZONTAL OR UPBLAST		
•	ACOUSTIC DIFFUSER: STANDARD - Plumbing access to compressed air manifold: Right		
٩	FILTER HOUSING ASSEMBLY HORIZONTAL, UNMOUNTED, intended to be adapted to the top of the screw conveyor		
9	A 5" drilled flange will be mounted on the upstand for when the Pigs are being exhasuted		
•	QUICK RELEASE CLAMP ASSEMBLY		
•	STAINLESS STEEL NAMEPLATE		
HP, 46 irflow cross f ressur ystem	50/60/3 control panel in NEMA 12 enclosure. Includes a VFD with Controller to automatically adjust the airflow after the pressure the filter's changes throughout the life of the filters. A Delta P filter e monitoring, and cleaning control will initiate the filter cleaning cycles based on the pressure across the filters.	1	\$8,474.00
		TOTAL:	\$37,044.00

2010-00-00-00-00-00-00-00-00-00-00-00-00-	and approvariaceptance	Approximate weight.	1,045 IDS.
FOB:	Nicholasville KY	Freight:	Prepay & Add

Thank you for the opportunity to present our solution for your project. If favored with your valued order, please reference our commercial information noted below.

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Sincerely, Patrick Mahoney District Manager

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