DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/13/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Idaho Milk Products	**Facility Name:** Milk Processing Plant	**Facility ID #:**
Brief Project Description:		

IDENTIFICATION				BAGHOUSE			BAGS			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Baghouse Manufacturer	Baghouse Model No.	Type	Type	Size (Dia x Ht)	No. of Bags	Air to Cloth
MPC/Skim Milk Dryer Baghouses	P101	P101A	P101A	C E Rogers Co	CER-400	Reverse Air	TBD	6" x 16'	400	7/1
" " " "	"	P101B	P101B	C E Rogers Co	CER-400	Reverse Air	TBD	6" x 16'	400	7/1
MPC/Skim Milk Fluid-Bed Baghouse	P102	P102	P102	C E Rogers Co	CER-78	Reverse Air	TBD	6" x 12'	96	5/1
Permeate Fluid-Bed Baghouse	P104	P104	P104	C E Rogers Co	CER-216	Reverse Air	TBD	6" x 14'	216	6.5/1
Permeate Powder Receiving Baghouse	P105	P105	P105	Nu-Cor	NCRD 84-21-3T	Reverse Air	TBD	TBD	84	4.7/1

DEQ AIR QUALITY PROGRAM
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PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/26/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Idaho Milk Products	**Facility Name:** Milk Processing Facility	**Facility ID No.:**
Brief Project Description:		

IDENTIFICATION				SCRUBBER					
1.	2.	3.	4.	5.	6.	7.	8.	9	10.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Manufacturer Name	Model No.	Type	Dimensions In Feet (Ht x Dia x L)	Water Flow (gpm)	Pressure Drop (in H_2O)
Permeate Dryer Scrubber	P103	P103	P103	C E Rogers Co	CER-WSS 11' dia	Water Circulating Scrubber System	TBD x 11 x TBD	250	TBD

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit **Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 2 2/14/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES

		3.											
1.	2.	PM_{10}		SO_2		NO_x		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
MPC/Skim Milk Dryer (P101)	P101	7.90	34.60	0.02	0.10	1.60	6.80	12.40	54.30	0.22	0.90	0.00	0.00
MPC/Skim Milk Fluid-Bed (P102)	P102	0.78	3.40										
Permeate Dryer Scrubber (P103)	P103	7.01	30.68	0.01	0.03	0.50	2.00	3.70	16.30	0.06	0.30	0.00	0.00
Permeate Fluid-Bed (P104)	P104	1.97	8.60										
Permeate Powder Receiver (P105)	P105	0.05	0.20										
Boiler #1 & #2 (P106 & P107)	P106/P107	0.25	1.10	0.02	0.10	3.28	14.40	2.76	12.10	0.18	0.80	0.00	0.00
Emergency Generator	P108	0.62	0.20	0.36	0.10	0.97	4.30	2.20	0.50				
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		18.57	78.78	0.41	0.33	6.35	27.50	21.06	83.20	0.46	2.00	0.00	0.00

DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit **Hotline - 877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 1 1/11/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

		3.											
1.	2.	PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Fugitive Source(s)													
Name of Fugitive Source 1													
Name of Fugitive Source 2													
Name of Fugitive Source 3													
Name of Fugitive Source 4													
Name of Fugitive Source 5													
Name of Fugitive Source 6													
Name of Fugitive Source 7													
Name of Fugitive Source 8													
Name of Fugitive Source 9													
Name of Fugitive Source 10													
Name of Fugitive Source 11													
Name of Fugitive Source 12													
Name of Fugitive Source 13													
Name of Fugitive Source 14													
Name of Fugitive Source 15													
Name of Fugitive Source 16													
Name of Fugitive Source 17													
Name of Fugitive Source 18													
Name of Fugitive Source 19													
Name of Fugitive Source 20													
Name of Fugitive Source 21													
... (insert more rows as needed)													
Total													

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the Air Permit
Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 2
2/14/2007

Please see instructions on next page before filling out the form.

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES

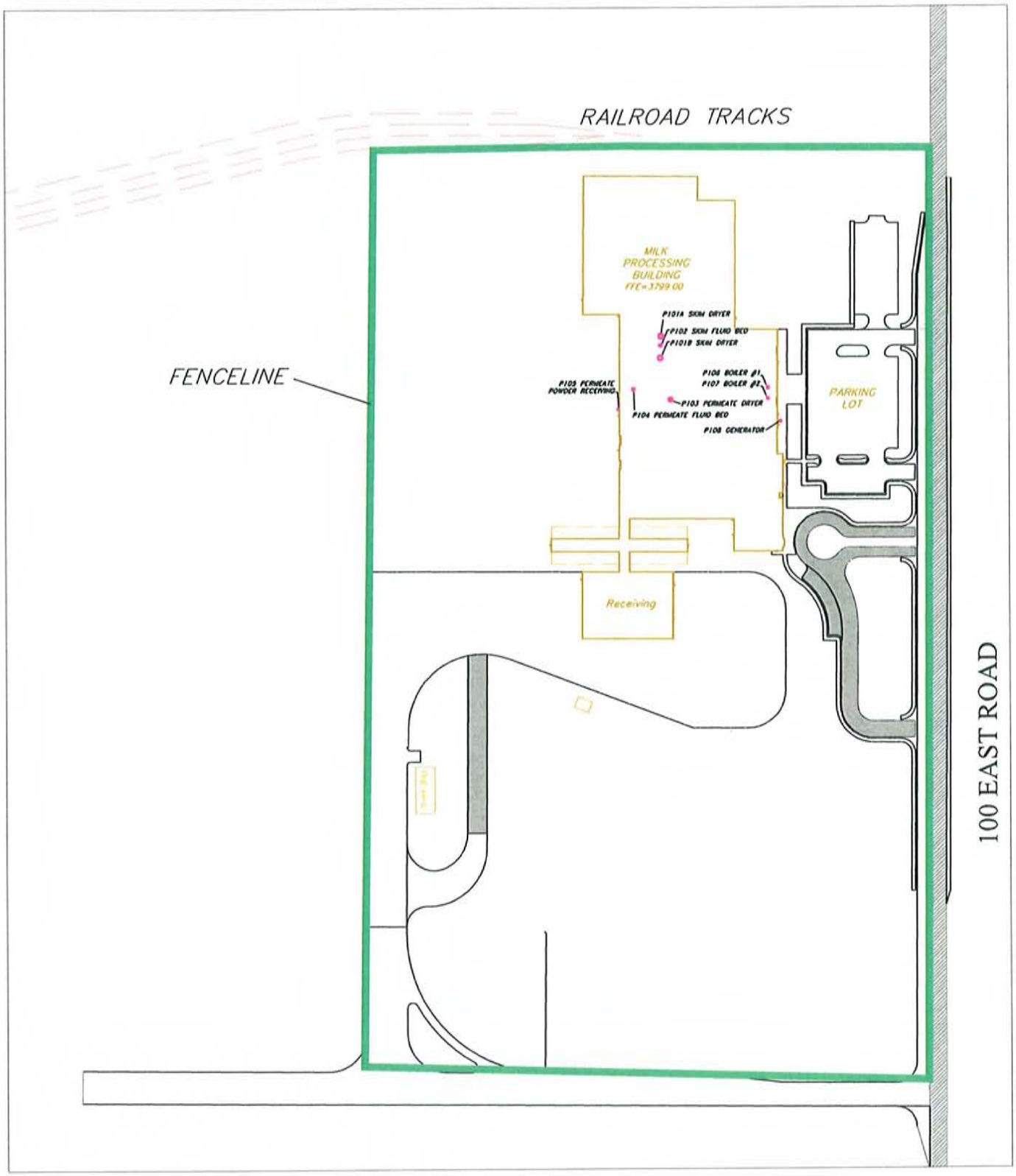
		3.											
1.	2.	PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
Skim Milk Dryer (P101)	P101	7.90	34.60	0.02	0.10	1.60	6.80	12.40	54.30	0.22	0.90	0.00	0.00
Skim Milk Fluid-Bed (P102)	P102	0.78	3.40										
Permeate Dryer Scrubber (P103)	P103	7.01	30.68	0.01	0.03	0.50	2.00	3.70	16.30	0.06	0.30	0.00	0.00
Permeate Fluid-Bed (P104)	P104	1.97	8.60										
Permeate Powder Receiver (P105)	P105	0.05	0.20										
Boiler #1 & #2 (P106 & P107)	P106/P107	0.25	1.10	0.02	0.10	3.28	14.40	2.76	12.10	0.18	0.80	0.00	0.00
Emergency Generator	P108	0.62	0.20	0.36	0.10	0.97	4.30	2.20	0.50				
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		18.57	78.78	0.41	0.33	6.35	27.50	21.06	83.20	0.46	2.00	0.00	0.00

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit **Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 2 2/14/2007
Company Name:	Idaho Milk Products	
Facility Name:	Milk Processing Plant	
Facility ID No.:		
Brief Project Description:	Construction of a new milk processing plant.	

Please see instructions on next page before filling out the form.

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

		3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)											
1.	2.	PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Fugitive Source(s)													
Name of Fugitive Source 1													
Name of Fugitive Source 2													
Name of Fugitive Source 3													
Name of Fugitive Source 4													
Name of Fugitive Source 5													
Name of Fugitive Source 6													
Name of Fugitive Source 7													
Name of Fugitive Source 8													
Name of Fugitive Source 9													
Name of Fugitive Source 10													
Name of Fugitive Source 11													
Name of Fugitive Source 12													
Name of Fugitive Source 13													
Name of Fugitive Source 14													
Name of Fugitive Source 15													
Name of Fugitive Source 16													
Name of Fugitive Source 17													
Name of Fugitive Source 18													
Name of Fugitive Source 19													
Name of Fugitive Source 20													
Name of Fugitive Source 21													
(insert more rows as needed)													
Total													



0 100 200 300
(Scale in Feet)

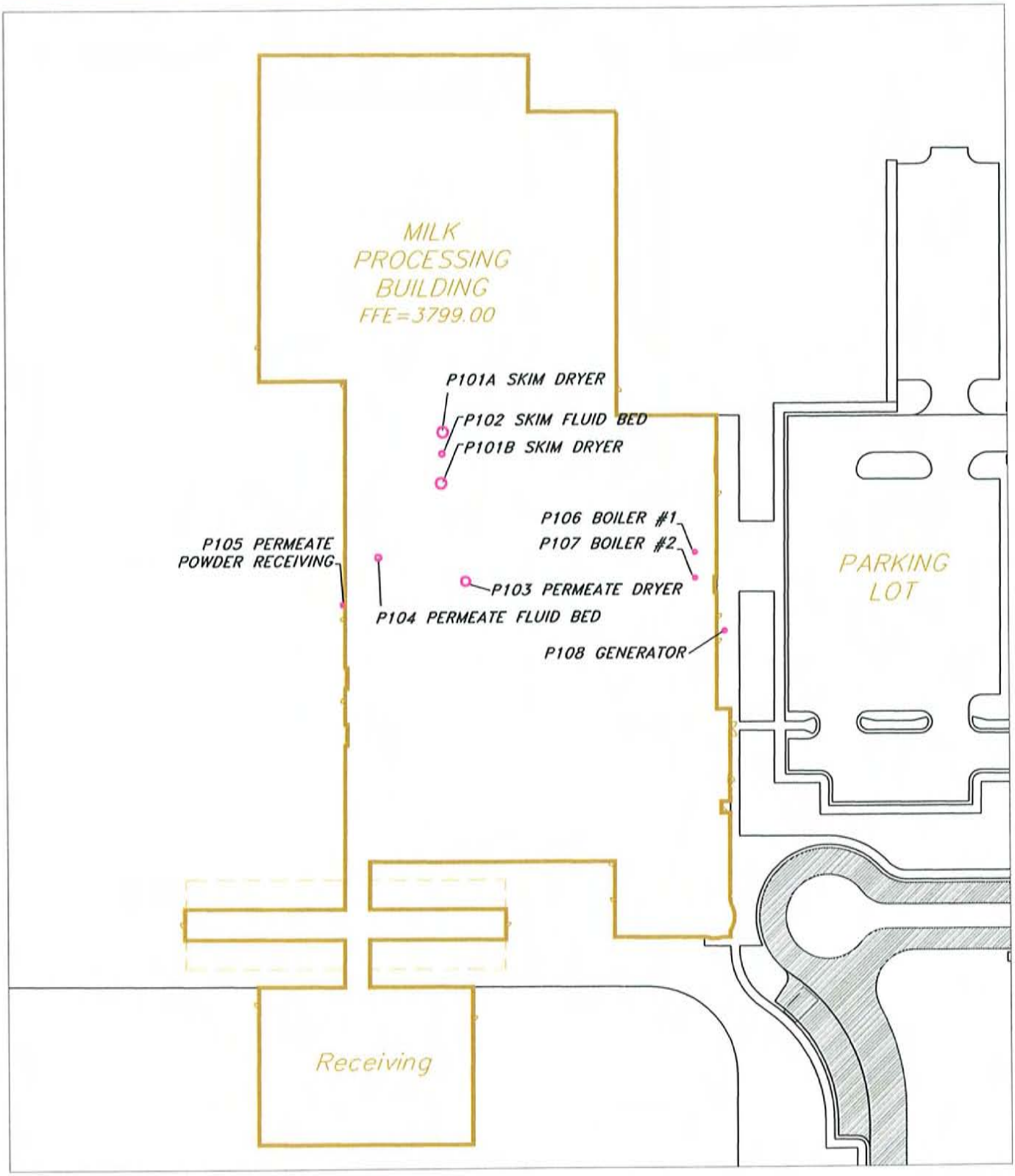
MSE Millennium Science & Engineering, Inc.

1605 North 13th Street
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)

Site Map with Fenceline Location

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07	Figure 3



0 25 50 100
(Scale in Feet)

MSE Millennium Science & Engineering, Inc.

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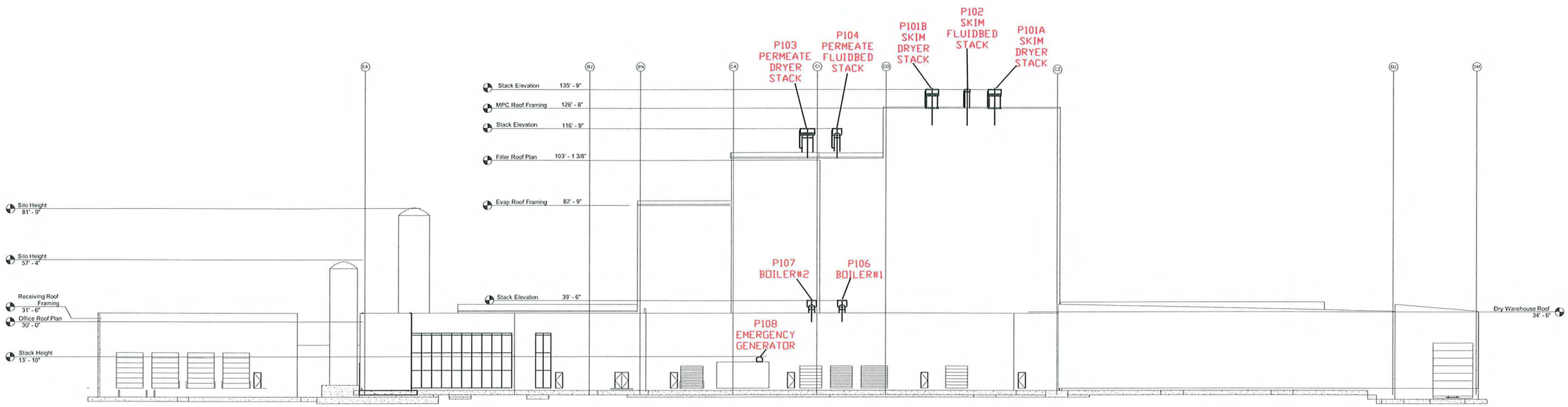
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)

Building Plan View and Emission Point Locations

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07

Figure 4



MSE Millennium Science & Engineering, Inc.

1605 North 13th Street
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)

East Elevation View

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07

Figure 5

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit **Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 2 2/14/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS

		1.		2.	3.	4.		5.
Criteria Pollutants	**Averaging Period**	**Significant Impact Analysis Results (µg/m3)**	**Significant Contribution Level (µg/m3)**	**Full Impact Analysis Results (µg/m3)**	**Background Concentration (µg/m3)**	**Total Ambient Impact (µg/m3)**	**NAAQS (µg/m3)**	**Percent of NAAQS**
PM_{10}	24-hour	NA	5	62.90	81.00	143.90	150	96%
	Annual	NA	1	18.66	27.00	45.66	50	91%
SO_2	3-hr	NA	25					
	24-hr	NA	5					
	Annual	NA	1					
NO_2	Annual	NA	1	21.85	17.00	38.85	100	39%
CO	1-hr	NA	2000	488.76	3,600.00	4,088.76	40,000	10%
	8-hr	NA	500	197.02	2,300.00	2,497.02	10,000	25%

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit **Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 2 2/14/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plnat
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

POINT SOURCE STACK PARAMETERS

1.	2.	3a.	3b.	4.	5.	6.	.7	8.	9.	10.
Emissions units	**Stack ID**	**UTM Easting (m)**	**UTM Northing (m)**	**Base Elevation (m)**	**Stack Height (m)**	**Modeled Diameter (m)**	**Stack Exit Temperature (K)**	**Stack Exit Flowrate (acfm)**	**Stack Exit Velocity (m/s)**	**Stack orientation (e.g., horizontal, rain cap)**
Point Source(s)										
MPC/Skim Milk Dryer (P101)	P101A	#########	#########	1,157.90	41.38	1.75	360.93	63,500.00	12.42	Vertical
MPC/Skim Milk Dryer (P101)	P101B	#########	#########	1,157.90	41.38	1.75	360.93	63,500.00	12.42	Vertical
MPC/Skim Milk Fluid-Bed (P102)	P102	#########	#########	1,157.90	41.38	0.76	327.59	9,090.70	9.41	Vertical
Permeate Dryer (P103)	P103	#########	#########	1,157.90	35.58	1.98	317.59	52,463.00	8.03	Vertical
Permeate Fluid-Bed (P104)	P104	#########	#########	1,157.90	35.58	1.27	327.59	29,384.00	10.95	Vertical
Permeate Powder Receiver (P105)	P105	#########	#########	1,157.90	13.13	0.00			0.00	Horizontal
Boiler #1 (P106)	P106	#########	#########	1,157.90	12.04	1.24	449.82	10,389.00	4.03	Vertical
Boiler #2 (P107)	P107	#########	#########	1,157.90	12.04	1.24	449.82	10,389.00	4.03	Vertical
Emergency Generator (P108)	P108	#########	#########	1,157.90	4.22	0.81	533.15	3,399.00	3.08	Vertical
name of the emissions unit10										
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
name of the emissions unit20										
name of the emissions unit21										
(insert more rows as needed)										

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Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 2
2/14/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

FUGITIVE SOURCE PARAMETERS

1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	**Stack ID**	**UTM Easting (m)**	**UTM Northing (m)**	**Base Elevation (m)**	**Release Height (m)**	**Easterly Length (m)**	**Northerly Length (m)**	**Angle from North (°)**	**Initial Vertical Dimension (m)**	**Initial Horizontal Dimension (m)**
Area Source(s)										
name of the emissions unit1	NA									
name of the emissions unit2										
name of the emissions unit3										
name of the emissions unit4										
name of the emissions unit5										
name of the emissions unit6										
name of the emissions unit7										
name of the emissions unit8										
name of the emissions unit9										
name of the emissions unit10										
Volume Source(s)										
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
(insert more rows as needed)										

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PERMIT TO CONSTRUCT APPLICATION
Revision 2
2/14/2007

Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

BUILDING AND STRUCTURE INFORMATION

1.	2.	3.	4.	5.	6.	7.
Building ID Number	**Length (ft)**	**Width (ft)**	**Base Elevation (m)**	**Building Height (m)**	**Number of Tiers**	**Description/Comments**
BLD_1	NA	13.91	1157.90	24.92	1	Circular building
BLD_2	NA	13.91	1157.90	24.92	1	Circular building
BLD_3	NA	13.91	1157.90	24.92	1	Circular building
BLD_4	NA	13.91	1157.90	24.92	1	Circular building
BLD_5	NA	13.91	1157.90	24.92	1	Circular building
BLD_6	NA	13.91	1157.90	24.92	1	Circular building
BLD_7	NA	13.91	1157.90	24.92	1	Circular building
BLD_8	NA	13.91	1157.90	24.92	1	Circular building
BLD_9	NA	13.91	1157.90	24.92	1	Circular building
BLD_10	NA	12.40	11.57.9	17.47	1	Circular building
BLD_11	NA	12.40	11.57.9	17.47	1	Circular building
BLD_12	NA	12.40	11.57.9	17.47	1	Circular building
BLD_13	NA	12.40	11.57.9	13.89	1	Circular building
BLD_14	NA	12.40	11.57.9	13.89	1	Circular building
BLD_15	Various	Various	11.57.9	9.60	1	Polygonal building
BLD_16	Various	Various	11.57.9	6.10	1	Polygonal building
BLD_17	Various	Various	11.57.9	3.40	1	Polygonal building
BLD_18	Various	Various	11.57.9	3.40	1	Polygonal building
BLD_19	109/79.5	92/92	11.57.9	31.43/38.61	2	Rectangular building
BLD_20	40.00	136.12	11.57.9	31.43	1	Rectangular building
BLD_21	42.32	72.00	11.57.9	25.22	1	Rectangular building
BLD_22	Various	Various	11.57.9	10.52	1	Polygonal building
BLD_23	23.16	8.33	11.57.9	3.66	1	Rectangular building

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PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Idaho Milk Products	Facility Name: Milk Processing Plant	Facility ID No:
Brief Project Description: Construction of a new milk processing plant		

APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	☒ NO	☐ YES* * If YES then applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	☐ NO	☒ YES* *If YES please identify sub-part: Dc and IIII
3. Will this project be subject to a MACT (Maximum Achievable Control Technology) regulation? (40 CFR part 63) THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT	☒ NO	☐ YES* *If YES please identify sub-part: _____
4. Will this project be subject to a NESHAP (National Emission Standards for Hazardous Air Pollutants) regulation? (40 CFR part 61)	☒ NO	☐ YES* *If YES please identify sub-part: _____
5. Will this project be subject to PSD (Prevention of Significant Deterioration)? (40 CFR section 52.21)	☒ NO	☐ YES
6. Was netting done for this project to avoid PSD?	☒ NO	☐ YES* *If YES please attach netting calculations

IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT