TECHNICAL SUPPORT DOCUMENT

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TECHNICAL INFORMATION PRESENTED IN REVIEW OF AN APPLICATION FOR A PART 70 OPERATING PERMIT RENEWAL

for

MGM RESORTS INTERNATIONAL
Clark County, Nevada

Facility: 825
SIC Code 7011: Hotels and Motels
NAICS Code 721120: Casino Hotels

Clark County
Department of Air Quality
September 16, 2016

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EXECUTIVE SUMMARY

MGM RESORTS INTERNATIONAL (MRI) owns and operates multiple hotel/casinos on Las Vegas Blvd, in the Las Vegas Valley airshed, hydrographic basin number 212. Hydrographic basin 212 is attainment for all regulated air pollutants.

This major stationary source consists of ten individual hotel/casinos and a tram that runs between three of the hotels. Through the merger of MGM MIRAGE and Mandalay Resort Group, the consolidated owner's properties became one contiguous, adjacent source. The Initial Part 70 Operating Permit, issued December 30, 2010, consolidated the ATCs and operating permits issued by the Department of Air Quality (Air Quality) for the individual hotel/casinos and condominiums.

Air Quality has permitting responsibilities for all emission units which includes boilers, diesel generators and fire pumps, cooling towers, gasoline dispensing operations, laundry facilities, woodworking and surface coating operations, natural gas fueled turbines, and pyrotechnic equipment at the source. The permitting history of this source reflects the changes in air quality permitting practices both at the local and federal levels in response to changing environmental regulations.

Table II-1 lists the sum of the PTEs of the permitted emission units. The source is major for NO_x and CO.

Table II-1: Source PTE (tons per year)

PM_{10}	$PM_{2.5}$	NO_X	CO	SO_2	VOC	HAP	CO_2e
91.80	**91.80**	**737.79**	**328.18**	**4.01**	**68.84**	**22.29**	

Air Quality has delegated authority to implement the requirement of the Part 70 operating permit program. Based on the information submitted by the applicant and a technical review performed by Air Quality staff, Air Quality proposes the issuance of a Part 70 Operating Permit to MRI.

I. ACRONYMS

Table I-1: List of Acronyms

Acronym	Term
AQR	Clark County Air Quality Regulations
AST	Aboveground Storage Tank
ATC	Authority to Construct Certificate or Authority to Construct
ATC/OP	Authority to Construct/Operating Permit
Bhp	Brake Horsepower
CARB	California Air Resources Board
CE	Control Efficiency
CF	Control Factor
CO	Carbon Monoxide
EF	Emission Factor
EPA	United States Environmental Protection Agency
EU	Emission Unit
GDO	Gasoline Dispensing Operation
GHG	Greenhouse Gases
HAP	Hazardous Air Pollutant
HP	Horse Power
IA	Insignificant Activity
IFR	Internal Floating Roof
LAER	Lowest Achievable Emissions Rate
MMBtu	Millions of British Thermal Units
NEI	Net Emission Increase
NESHAP	National Emissions Standard for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
NSR	New Source Review
OP	Operating Permit
PM_{10}	Particulate Matter less than 10 microns
Ppm	Parts per Million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RVP	Reid Vapor Pressure
Scf	Standard Cubic Feet
SIP	State Implementation Plan
SO_X	Sulfur Oxides
TSD	Technical Support Document
UST	Underground Storage Tank
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid

II. SOURCE DESCRIPTION AND EMISSIONS SUMMARY

A. General

Permittee	MGM RESORTS INTERNATIONAL
Mailing Address	840 Grier Drive, Las Vegas, NV 89119
Responsible Official	Cindy Ortega
Contact	Chris Magee (702) 692-2103 Fax: (702) 862-1261 Email: cmagee@mgmresorts.com
Source Locations	3799 South Las Vegas Blvd, 89109 3790 South Las Vegas Blvd, 89109 3770 South Las Vegas Blvd, 89109 3799 South Las Vegas Blvd, 89109 3950 South Las Vegas Blvd, 89119 3960 South Las Vegas Blvd, 89119 3900 South Las Vegas Blvd, 89119 3850 South Las Vegas Blvd, 89119 3600 South Las Vegas Blvd, 89109 3780 South Las Vegas Blvd, 89109 145 East Harmon Ave, 89109
Hydrographic Areas	212
Township, Range, Section	T21S, R61E, Sections 20 and 21
SIC Code	7011: Hotels and Motels
NAICS Code	721120: Casino Hotels

B. Source Description

MGM RESORTS INTERNATIONAL (consolidated MGM RESORTS INTERNATIONAL properties) operates ten resort/hotel/casinos and a tram that runs between the Mandalay Bay, Excalibur, and Luxor. Existing equipment at this source is grouped under Standard Industrial Classification 7011: Hotels and Motels.

All boilers are fueled by natural gas only and all emergency generators and fire pumps are fueled by diesel only. The source also owns and operates cooling towers, gasoline dispensing operations, laundry facilities, woodworking and surface coating operationg, natural gas fueled turbines, and pyrotechnic equipment.

MGM RESORTS INTERNATIONAL is a major source for NO_x and CO and a minor source for all the other regulated air pollutants.

C. Permitting History

This section of the TSD explains the modifications and changes that occurred after the issuance of the initial Title V Operating Permit on December 30, 2010.

The proposed renewal of the Title V operating permit is based on the initial Operating Permit issued on December 30, 2010; the significant revisions issued on September 21, 2012, and December 26, 2014; and the various applications submitted to Air Quality, as listed in Table II-C-1:

Table II-C-1: Previous Permit Applications for MGM

Date	Application Type	Description
10/15/2013	Supplemental to a Minor Revision of Part 70 OP	Request to: • Add two spa heaters, 0.399 MMBtu/hr each, to Luxor (EUs: LX034 and LX035). • Add one pool heater, 1.999 MMBtu/hr, to New York-New York (EU: NY45). • Add one dry cleaning unit to the Four Seasons (insignificant unit). • Remove four insignificant hot water heaters at Bellagio. • Remove a pool heater (EU: LX028), a boiler (EU: NY39), and a dry cleaning machine (EU: FS004). These were addressed in the significant revision issued on 12/26/2014.
06/06/2013	Minor Revision of Part 70 OP	Request to: • Add two spray booths and a carpentry shop with dust collector to Mandalay Bay (EUs: MB104 through MB106). • Add three spa heaters, 0.1995 MMBtu/hr each, to Bellagio (EUs: BE128 through BE130). These were addressed in the significant revision issued on 12/26/2014.
08/15/2013	Addendum to Minor Revision Application (12/20/2012)	Additional information justifying the boiler “cap” removals. This was addressed in the significant revision issued on 12/26/2014.
03/08/2013	N/A - Source Comments on Draft Permit	Request to: • Remove a carpentry shop at New York-New York (EU: NY41). • Remove five boilers at Bellagio (EUs: BE33, BE34, BE46, BE60, and BE115). • Remove a diesel emergency generator at Monte Carlo (EU: MC023). • Remove Phase II testing requirements for three storage tanks (EUs: MG46, EX017, and MB089) as

Date	Application Type	Description
		these units do not have Phase II controls. • Change the identification of MB046 to MG52 and MG047 to MG53. These were addressed in the significant revision issued on 10/21/2013.
12/20/2012	Minor Revision of Part 70 OP	Request to: • Remove select permitted “cap” limits established for groups of boilers and cooling towers (EUs: MG52, MG53, MB010 through MB037, MB039 through MB045, and MB055 through MB060). • Establish a 22,000 hr/yr cap for three boilers (EUs: MB049, MB050, and MB051) at Mandalay Bay. • Remove a boiler at NY-NY (EU: MB048). This was addressed in the significant revision issued on 12/26/2014.
09/13/2012	Minor Revision of Part 70 OP	Request to: • Replace four cooling towers (EUs: MB073 through MB076) with new units (EUs: MB100 through MB103). • Replace three Excalibur and Tram Spa Heaters (EUs: EX022 through EX024) with new units (EUs: EX028 through EX030). • Replace two Bellagio boilers (EUs: BE05 and BE06) with new units (EUs: BE125 and BE126). • Add a new AERCO boiler (EU: BE127) at the Bellagio. • Increase the TDS content of six cooling towers at the Bellagio (EUs: BE90 through BE95). • Add a new Unimaster Dust Collector (EU: MC024) at the Monte Carlo. • Add a new Clarke Fire Pump (EU: MG51) at the MGM Grand. • Remove two pool heaters at Luxor (EUs: LX026 and LX027). • Remove three 3,600 gpm cooling towers (EUs: LX014, LX020, and LX021). • Add three 3,600 gpm cooling towers (EUs: LX031, LX032, and LX033). • Add a 2.0 MMBtu/hr boiler (EU: MC010). This was addressed in the significant revision issued on 10/21/2013.
06/07/2012	Minor Revision of Part 70 OP	Request to add a boiler (EU: MG54) and remove two existing boilers (EUs: MB09 and MG012). This was addressed in the revision issued on 10/21/2013.

Date	Application Type	Description
9/19/2011	Revision of Part 70 OP	Request to remove ppm limits, performance testing requirements, and burner efficiency testing requirements for three boilers (EUs: EX001 through EX003). Request to increase testing hours of all emergency generators and fire pumps. This was addressed in the significant revision issued on 10/21/2013.
06/03/2011	Significant Revision of Part 70 OP	Request to update the CO control requirements for the Solar Turbines (EUs: CC007 and CC008), NOx emission limits for three boilers (EUs: CC026 through CC028), and TDS limits of seven cooling towers (EUs: CC029 through CC034). This was addressed in the significant revision issued on 10/21/2013.
12/15/10	Significant Revision of Part 70 OP	Request to add City Center emission units to the Title V Operating Permit and update the hp rating of two fire pumps (EUs: CC039 and CC040). This was addressed in the revision issued on 10/21/2013.
12/2005	Initial Part 70 OP	Initial Part 70 Operating Permit was issued on 12/30/2010.

D. Current Permitting Action

In the renewal application received on June 29, 2015, MRI grouped proposed changes to the permit into the following categories:

1. Permit Shield for 40 CFR 60 Subparts Dc, IIII, and KKKK and 40 CFR 63 Subparts ZZZZ and CCCCCC.
2. Removal of various emission units.
3. Removal of aftercooler requirements for specific emergency fire pump engines.
4. Update description of insignificant dry cleaning unit at Four Seasons.
5. Removal of burner efficiency testing requirements from Excalibur boilers.
6. Increase annual VOC PTE for BE111.
7. Removal of 40 CFR 60 Subpart IIII requirements from Excalibur diesel engines powering emergency generators.
8. Update emission unit descriptions as listed in Table II-D-2.
9. Updates to administrative issues throughout the permit.

MRI also requested that Air Quality incorporate any emission units where construction is complete prior to the issuance of the renewal Part 70 OP. Air Quality will include all such requests as practicable.

Air Quality has removed the requirement to keep sulfur records of diesel fuel. The engines at this source are subject to 40 CFR 60 Subpart IIII or 40 CFR 63 Subpart ZZZZ and so must meet the fuel requirements referenced therein from 40 CFR Subpart I, §80.510(b) for nonroad diesel fuel. The source must purchase diesel fuel that meets the per-gallon standard of 15 ppm maximum sulfur content, a minimum cetane index of 40 or a maximum aromatic content of 35 volume

percent. As all refiners and importers of non-road diesel fuel are also subject to these federal standards pursuant to 40 CFR §80.510, it is reasonable to assume the operators of the engines do not have the opportunity to acquire fuel that violates these standards. Therefore, the Permittee is not being required by the operating permit to monitor or keep records of the sulfur content, cetane index, or aromatic content of the diesel fuel used in their engines. The citation for this condition has been updated to the 40 CFR 60 Subpart IIII or 40 CFR 63 Subpart ZZZZ, as applicable.

A condition has been added to the recordkeeping requirement of each property that has a diesel engine or fire pump

Air Quality corrected condition III-I-5-c to refer to units BE125 and BE126 instead of BE124 and BE125. BE124 is a boiler rated at 1.999 MMBtu/hr, which is not above the ratings threshold to require burner efficiency tests; BE126 is rated at 5.25 MMBtu/hr, which is above the ratings threshold to require burner efficiency tests.

Permit Shield

MRI requested a permit shield, as allowed by AQR 12.5.2.9, for all applicable NSPS and NESHAP standards: 40 CFR 60 Subparts Dc, IIII, and KKKK and 40 CFR 63 Subparts ZZZZ and CCCCCC. The applicable conditions in the permit are cited with the appropriate NSPS or NESHAP section.

Emission Unit Removals

MRI requested the emission units in Table II-D-1 be removed from the permit.

Table II-D-1: Removed Emission Units

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MG01	2.0 MMBtu/hr	Boiler	Envirotech	N/A	1109
MG03	4.0 MMBtu/hr	Boiler	Envirotech	N/A	1107
MG36	1.38 MMBtu/hr	Boiler	Patterson-Kelley	D-1200	BJ16-98-8881
MG37	1.38 MMBtu/hr	Boiler	Patterson-Kelley	D-1200	BJ16-98-8882
MG38	1.9 MMBtu/hr	Boiler	Patterson-Kelley	D-1900-2	CJ10-98-8703
MG47	2.0 MMBtu/hr	Water Heater	Patterson-Kelley	N-700	AK47-97-8484
MG48	2.0 MMBtu/hr	Water Heater	Patterson-Kelley	N-700	AK47-97-8483
NY01	12.6 MMBtu/hr	Boiler	IBW/Universal Energy	BF300L-PF8	276EG
NY02	12.6 MMBtu/hr	Boiler	IBW/Universal Energy	BF300L-PF8	277EG
NY33	3,600 gpm	Cooling Tower	Baltimore Air Coil	31055-PX	95201375
NY34	3,600 gpm	Cooling Tower	Baltimore Air Coil	31055-PX	95201376
NY35	3,600 gpm	Cooling Tower	Baltimore Air Coil	31055-PX	95201377
NY36	3,600 gpm	Cooling Tower	Baltimore Air Coil	31055	00-10899
MC010	2.06 MMBtu/hr	Boiler	Patterson-	D-2000-2	CM07-02-

EU	Rating	Type	Manufacturer	Model No.	Serial No.
			Kelley		23101
LX001	21.0 MMBtu/hr	Boiler	Bryan	RW 2100-W-FDG-WLX	73476
EX017	1,000 gallons	Aboveground Storage Tank	F.C. Lowe	4-91	492030
BE01	20.0 MMBtu/hr	Boiler	Unilux Manufacturing	ZF2000W	2082
BE02	20.0 MMBtu/hr	Boiler	Unilux Manufacturing	ZF2000W	2138
BE03	20.0 MMBtu/hr	Boiler	Unilux Manufacturing	ZF2000W	2139
BE04	20.0 MMBtu/hr	Boiler	Unilux Manufacturing	ZF2000W	2140
BE36	1.0 MMBtu/hr	Water Heater	Aerco		G-97-204
BE39	1.0 MMBtu/hr	Water Heater	Aerco		G-97-203

Removal of Aftercooler Requirements

MRI requested the removal of aftercooler requirements of thirteen diesel emergency generators and fire pumps (EUs: MG24 through MG28, LX012, LX013, and CC035 through CC040). It appears to be an error that these units had aftercoolers. The removal of this requirement does not affect emissions or any previous controls analysis.

Updated Description of Insignificant Dry Cleaning Unit at Four Season

The insignificant dry cleaning activity at the Four Seasons is incorrectly identified as a perchloroethylene unit in the TSD. The unit's description will be updated to the usage of DF-2000 fluid.

Request to Remove Burner Efficiency Testing Requirements from Excalibur Boilers

MRI requested the removal of burner efficiency tests for three boilers at Excalibur (EUs: EX001 through EX003). These units are 29.3 MMBtu/hr each and have a combined operational limit of 12,000 hours per year. Per Air Quality's Guidelines for Source Testing, burner efficiency tests shall be conducted twice a year on units of this size. Therefore, this request is denied and the requirements in the permit for these units to be tested will remain.

Increase Annual VOC PTE for BE111

MRI requested the increase of the VOC PTE for a 2.1 MMBtu/hr natural gas boiler (EU: BE111) from 0.02 tons per year to 0.05 tons per year. Based on the AP-42 emission factor used for all boilers, Air Quality agrees with this change. When this unit was originally permitted, November 30, 2009, two 1.999 MMBtu/hr boilers (EUs: BE123 and BE124) were also permitting with AP-42 emission factors resulting in VOC PTE of 0.05 tons per year each. Therefore, this appears to be a typographical error and should be corrected. No controls analysis is affected by this change.

Removal of 40 CFR 60 Subpart IIII Requirements from Excalibur Diesel Engines

These diesel engines were manufactured prior to April 1, 2006, which predates the applicability of Subpart IIII. As such, these units are subject to 40 CFR 63 Subpart ZZZZ. As the units are existing commercial emergency units, limited to 100 hours per year for non-emergency use, they are exempt from the requirements of Subpart ZZZZ.

Update Emission Unit Descriptions

Table II-D-2: Emission Unit Description Updates

EU	Parameter	Current Text	Proposed Update
MB093	Rating	1,620 hp	2,172 hp
LX024	Serial No.	None	EGB00199
LX025	Serial No.	None	EGB00203
LX024 and LX025	Type	Diesel Emergency Generator	Natural Gas and/or Diesel Emergency Generator
EX013, EX014, and EX015	Rating	3,000 gpm	3,300 gpm
BE80 – BE86	Rating	2,345 hp	2,520 hp
BE80 – BE86	Model No.	2520	3416
BE87 – BE88	Model No.	None	3416
BE91 – BE95	Serial No.	Serial Numbers listed under Model Number	Move text to proper column
BE127	Serial No.	H-12-2201	G10-2456
CC005	Serial No.	TBD	S500-150-151
CC006	Serial No.	TBD	S500-150-152

Emission Unit MB093 was originally permitted as a 2,170 hp engine generating 1,500 kW (EU: U01) in the Modification 4 permit for Source 737 (04/29/2004) and met BACT at that time. It is unclear how the description and PTE were changed in the subsequent permits. Also of note, Modification 4 had net emissions decreases. Including the additional potential emissions from this unit, based on its originally permitted limit of 26 hours per year, Modification 4 did not increase emissions above the significance thresholds in place at that time which would have required LAER, per AQR 15.

Emissions Units BE80 through BE86 were originally permitted as 1,750 kW units and met BACT at the time (Source 756, 03/28/2000). A direct conversion from kW to hp results in a calculated 2,345 hp. The actual nameplate rating of the units has always been 2,520 hp. The increase in rating has no effect on the historical controls analysis of these units. However, the increase in emissions due to this change is included in the emissions increase calculation.

Updates to Administrative Issues Throughout the Permit

MRI requested the correction of various minor typographical errors and update contact information. These changes do not affect the enforceability of the permit nor do they add any additional requirements.

Minor Revision Request Received February 13, 2015

On February 13, 2015, MRI submitted an application requesting the removal of two boilers (EUs: BE02 and BE36) and the addition of two boilers (EUs: BE131 and BE132) and a pool heater (EU: BE133). The increase in PTE of this request was below the Minor NSR Significant Levels and does not require a controls analysis.

Minor Revision Request Received July 29, 2015

On July 29, 2015, MRI submitted an application for the follow changes:

- Revise the CO emission limits in ppmv from 50 ppmv to 100 ppmv for three boilers (EUs: MB049 through MB051) and update the CO PTE, both lb/hr and tpy based on the ppmv change.
- Update the NO_x hourly PTE for three boilers (EUs: MB049 through MB051) based on the permitted limit of 30 ppmv.
- Revise the NO_x emission limits in ppmv from 20 ppmv to 30ppmv for four boilers (EUs: MC001 through MC004).
- Update the NO_x hourly and annual PTE for four boilers (EUs: MC001 through MC004) based on the proposed change of 30 ppmv.
- Revise the CO emission limits in ppmv from 50 ppmv to 100 ppmv for four boilers (EUs: MC001 through MC004).
- Update the CO hourly and annual PTE for four boilers (EUs: MC001 through MC004) based on the proposed change of 100 ppmv.

For the Mandalay Boilers (EUs: MB049 through MB051) The 100 CO ppmv concentration requested by the source was established when permitted under Minor Source #737. Originally, in Modification 3 (01/10/2003) of that source, the boilers were permitted at 400 ppmv CO. Based on revisions to AQR 49, in effect at the time, the boilers were then subject to a permitted concentration of 100 ppmv. It is believed to be an error that the concentration was reduced in the initial Part 70 Operating Permit issued on December 30, 2010, as MGM and Air Quality could not find documentation of the change in an application.

Revising the NOx concentration from 20 ppmv to 30 ppmv and the CO concentration from 50 ppmv to 100 ppmv for four Monte Carlo boilers (EUs: MC001 through MC004) is acceptable due normal operation of the units over the course of 20 years. 30 ppmv NOx and 100 ppmv CO were the concentration limits when the units were originally permitted, based off of AQR Section 49 in effect at the time. These values where changed during issuance of the initial Part 70 Operating Permit based off of an application submitted on May 9, 1996. However, these values were near or at 20 ppmv, not allowing the units any consideration for normal reductions in operating efficiency over time. In addition, regular performance tests conducted by the source have shown the units to meet the requested 30 ppmv NOx and 100 ppmv CO.

E. Operating Scenario

MRI properties are all hotel and casino facilities. Each facility operates 8,760 hours per year. Permitted operating hours and production limits for each emission unit were provided by the source. It should be noted that for some facilities, boilers are grouped together in the permit. The individual emission unit's permitted operating hours may be greater than those allowed for as a group of emission units. For example, while four boilers may each be allowed to operate

for up to 8,760 hours per year, the maximum allowable hours for the group of boilers may be less than the possible 35,040 hours. This permitting strategy allows for limiting emissions while still allowing for operational flexibility. Where groups of emission units are limited in their combined hours of operation, the limitations are specified in the permit.

F. Proposed Exemptions

MRI has not proposed additional exempt emission units. The current list of exempt emission units is found in Appendix 1.

III. EMISSIONS INFORMATION

A. Total Source Potential to Emit

MGM Resorts International is a major source for NO_x and CO and a minor source for PM_{10}, SO_x, VOC, and HAP:

Table III-A-1: Source-wide PTE (tons per year)

Pollutant	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MGM Grand	25.75	25.75	154.61	83.53	0.64	22.23	8.67
New York -- New York	1.42	1.42	33.88	9.42	0.09	1.26	0.15
Monte Carlo	6.03	6.03	39.50	23.49	0.16	2.40	0.46
Signature	1.89	1.89	26.18	12.89	0.44	1.13	0.45
Mandalay Bay	17.13	17.13	116.97	69.25	0.83	15.51	4.07
Four Seasons	0.06	0.06	0.27	0.45	0.01	0.06	0.03
Luxor	9.41	9.41	84.71	39.99	0.28	4.97	1.22
Excalibur	5.25	5.25	55.64	25.06	0.32	3.96	0.71
Bellagio	10.94	10.94	151.35	50.95	0.59	12.66	5.06
City Center	14.61	14.61	86.18	17.25	0.65	5.09	1.30
Totals	**92.47**	**92.47**	**749.27**	**332.27**	**4.01**	**69.27**	**22.12**
Major Source Thresholds	**250**	**250**	**250**	**250**	**250**	**250**	**25/10[1]**

[1]25 tons for combination of all HAPs (no single HAP exceeds 10 tons).

B. Control Technology

No controls analysis is required with this permitting action. Previous RACT and BACT determinations remain valid for existing emission units.

C. Emission Units, Emission Limitations, and PTE

MGM Grand

Table III-C-1: Summary of Emission Units – MGM Grand

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MG02	2.0 MMBtu/hr	Boiler	Envirotech	N/A	1110
MG04	4.0 MMBtu/hr	Boiler	Unliux	ZF400	1999

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MG05	4.0 MMBtu/hr	Boiler	Unliux	ZF400	2000
MG06	4.0 MMBtu/hr	Boiler	Unliux	ZF400	2013
MG13	32.66 MMBtu/hr	Boiler	Cleaver Brooks	CBLE700-800-200	OL097510
MG14	32.66 MMBtu/hr	Boiler	Cleaver Brooks	CBLE700-800-200	OL096895
MG15	32.66 MMBtu/hr	Boiler	Cleaver Brooks	CBLE700-800-200	OL096896
MG16	16.33 MMBtu/hr	Boiler	Cleaver Brooks	CBLE700-800-200	OL096897
MG17	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02910
MG18	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02931
MG19	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02927
MG20	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02913
MG21	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02929
MG22	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02932
MG23	1,865 kW; 2,500 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02916
MG24	208 hp	Diesel Fire Pump	Cummins	6BTA5.9-F1	44802838
MG25	515 hp	Diesel Fire Pump	Clark Detroit Allison	DDFP-L8FA8176V	8VF-155265
MG26	412 hp	Diesel Fire Pump	Detroit Allison	DDFP-06FA-8175	6VF-199592
MG27	146 kW; 196 hp	Diesel Fire Pump/Generator	Caterpillar	3208DIT	03Z16779
MG28	183 hp	Diesel Fire Pump	Detroit Allison	PDFP-06YR2531F	U719491F
MG29	15’x25’	Spray Booth	Goldwest	2450	1568
MG30	18,000 gpm	Cooling Tower	Baltimore Aircoil	4469-20-3W	92-4G-6184
MG31	18,000 gpm	Cooling Tower	Baltimore Aircoil	4469-20-3W	92-4G-6184
MG32	18,000 gpm	Cooling Tower	Baltimore Aircoil	4469-20-3	92-46-6393
MG33	N/A	Solvent Degreasing			
MG34	2.0 MMBtu/hr	Boiler	Patterson-Kelley	NM-2000	CR46-05-28834
MG35	2.0 MMBtu/hr	Boiler	Patterson-	NM-2000	CR46-05-28833

EU	Rating	Type	Manufacturer	Model No.	Serial No.
			Kelley		
MG39	98” x 120” x 110”	Spray Booth	McMaster-Carr	7899T96	
MG40	74” x 41” x 38”	Spray Booth	McMaster-Carr	7866T83	
MG43	N/A	Pyrotechnics			
MG44	N/A	Carpentry Shop with Dust Collector	Donaldson Torit	30 CYC	IG903561
MG45	N/A	Carpentry Shop with Dust Collector	Dust Hog	C200	60031958
MG46	3,000 gallons	Aboveground Storage Tank	Ace Tank & Equipment		
MG49	2.0 MMBtu/hr	Boiler	Raypack	WH1-0401	602247052
MG50	2.0 MMBtu/hr	Boiler	Raypack	WH1-0401	602247051
MG51	149 hp	Fire Pump	Clarke	JU6H-UF68	PF6068T701042
MG52	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2811
MG53	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2810
MG54	6.00 MMBtu/hr	Boiler	Aerco	BMK6000	H-12-2201

Table III-C-2: PTE (tons per year) – MGM Grand

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MG02	2.0 MMBtu/hr	--	0.07	0.07	0.43	0.72	0.01	0.05	0.02
MG04	4.0 MMBtu/hr	--	0.13	0.13	0.86	1.44	0.01	0.09	0.03
MG05	4.0 MMBtu/hr	--	0.13	0.13	0.86	1.44	0.01	0.09	0.03
MG06	4.0 MMBtu/hr	--	0.13	0.13	0.86	1.44	0.01	0.09	0.03
MG13	32.66 MMBtu/hr	--	1.07	1.07	6.95	11.74	0.09	0.77	0.26
MG14	32.66 MMBtu/hr	--	1.07	1.07	6.95	11.74	0.09	0.77	0.26
MG15	32.66 MMBtu/hr	--	1.07	1.07	6.95	11.74	0.09	0.77	0.26
MG16	16.33 MMBtu/hr	--	0.53	0.53	3.47	5.87	0.04	0.39	0.13
MG17	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG18	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG19	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG20	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG21	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG22	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG23	2,520 hp	500 hr/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
MG24	208 hp	500 hr/yr	0.11	0.11	1.61	0.35	0.01	0.13	0.01
MG25	515 hp	500 hr/yr	0.28	0.28	3.99	0.86	0.01	0.32	0.01
MG26	412 hp	500 hr/yr	0.23	0.23	3.19	0.69	0.01	0.26	0.01
MG27	196 hp	500 hr/yr	0.11	0.11	1.52	0.33	0.01	0.12	0.01
MG28	183 hp	500 hr/yr	0.10	0.10	1.42	0.31	0.01	0.12	0.01
MG29	5.00 lb/gal	480 gal/yr	0.01	0.01	0.00	0.00	0.00	1.20	0.56
MG30	18,000 gpm	--	7.28	7.28	0.00	0.00	0.00	0.00	0.00
MG31	18,000 gpm	--	7.28	7.28	0.00	0.00	0.00	0.00	0.00
MG32	18,000 gpm	--	1.12	1.12	0.00	0.00	0.00	0.00	0.00
MG33	6.80 lbs/gal VOC	55 gal/month	0.00	0.00	0.00	0.00	0.00	2.24	2.24
MG34	2.0 MMBtu/hr	--	0.07	0.07	0.32	0.65	0.01	0.05	0.02

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MG35	2.0 MMBtu/hr	--	0.07	0.07	0.32	0.65	0.01	0.05	0.02
MG39	6.84 lb/gal	2000 gal/yr	0.01	0.01	0.00	0.00	0.00	6.84	3.21
MG40	6.84 lb/gal	600 gal/yr	0.01	0.01	0.00	0.00	0.00	2.05	0.96
MG43	6.70 lb/show	476 shows/yr	0.18	0.18	0.00	0.14	0.00	0.00	0.02
MG44	2 lb/hr	1200 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
MG45	2 lb/hr	1200 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
MG46	3,000 gal	99,000 gal/yr	0.00	0.00	0.00	0.00	0.00	1.55	0.01
MG49	0.399 MMBtu/hr	--	0.01	0.01	0.12	0.14	0.01	0.01	0.01
MG50	0.399 MMBtu/hr	--	0.01	0.01	0.12	0.14	0.01	0.01	0.01
MG51	149 hp	500 hr/yr	0.08	0.08	1.15	0.25	0.01	0.09	0.01
MG52	20.0 MMBtu/hr	--	0.65	0.65	3.19	3.24	0.05	0.47	0.17
MG53	20.0 MMBtu/hr	--	0.65	0.65	3.19	3.24	0.05	0.47	0.17
MG54	6.00 MMBtu/hr	8,760 hrs/yr	0.20	0.20	1.29	2.16	0.02	0.14	0.05
Totals			**25.75**	**25.75**	**154.61**	**83.53**	**0.64**	**22.23**	**8.67**

Table III-C-3: PTE (pounds per hour) – MGM Grand

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MG02	2.0 MMBtu/hr	0.01	0.01	0.10	0.16	0.01	0.01	0.01
MG04	4.0 MMBtu/hr	0.03	0.03	0.20	0.33	0.01	0.01	0.01
MG05	4.0 MMBtu/hr	0.03	0.03	0.20	0.33	0.01	0.01	0.01
MG06	4.0 MMBtu/hr	0.03	0.03	0.20	0.33	0.01	0.01	0.01
MG13	32.66 MMBtu/hr	0.24	0.24	1.59	2.68	0.02	0.18	0.06
MG14	32.66 MMBtu/hr	0.24	0.24	1.59	2.68	0.02	0.18	0.06
MG15	32.66 MMBtu/hr	0.24	0.24	1.59	2.68	0.02	0.18	0.06
MG16	16.33 MMBtu/hr	0.12	0.12	0.79	1.34	0.01	0.09	0.03
MG17	2,500 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
MG18	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG19	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG20	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG21	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG22	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG23	2,500 hp	1.75	1.75	60.48	13.86	0.03	1.78	0.08
MG24	208 hp	0.46	0.46	6.45	1.39	0.01	0.52	0.01
MG25	515 hp	1.13	1.13	15.97	3.44	0.01	1.29	0.02
MG26	412 hp	0.91	0.91	12.77	2.75	0.01	1.04	0.02
MG27	196 hp	0.43	0.43	6.08	1.31	0.01	0.49	0.01
MG28	183 hp	0.06	0.06	1.44	0.44	0.01	0.25	0.08
MG30	18,000 gpm	1.66	1.66	0.00	0.00	0.00	0.00	0.00
MG31	18,000 gpm	1.66	1.66	0.00	0.00	0.00	0.00	0.00
MG32	18,000 gpm	0.26	0.26	0.00	0.00	0.00	0.00	0.00
MG34	2.0 MMBtu/hr	0.01	0.01	0.07	0.15	0.01	0.01	0.01
MG35	2.0 MMBtu/hr	0.01	0.01	0.07	0.15	0.01	0.01	0.01
MG43	6.70 lb pyro/show	0.50	0.50	0.00	0.38	0.00	0.00	0.05
MG44	N/A	0.02	0.02	0.00	0.00	0.00	0.00	0.00
MG45	N/A	0.02	0.02	0.00	0.00	0.00	0.00	0.00
MG49	0.399 MMBtu/hr	0.01	0.01	0.03	0.03	0.01	0.01	0.01
MG50	0.399 MMBtu/hr	0.01	0.01	0.03	0.03	0.01	0.01	0.01
MG52	20.0 MMBtu/hr	0.15	0.15	0.73	0.74	0.01	0.11	0.04
MG53	20.0 MMBtu/hr	0.15	0.15	0.73	0.74	0.01	0.11	0.04

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MG51	149 hp	0.33	0.33	4.62	1.00	0.01	0.37	0.01
MG54	6.00 MMBtu/hr	0.05	0.05	0.29	0.49	0.01	0.03	0.01

Table III-C-4: Source PTE (pounds/month) – MGM Grand

EU	Rating	Conditions	VOC	HAP
MG29	5.00 lb/gal VOC	48 gal/month	240	112.8
MG33	6.80 lb/gal VOC	55 gal/month	374	374
MG39	6.84 lb/gal VOC	200 gal/month	1,368.00	642.96
MG40	6.84 lb/gal VOC	60 gal/month	410.4	192.89
MG46	3,000 gallons	9,900 gal/month	310.76	3.73

NY-NY

Table III-C-5: Summary of Emission Units – New York – New York

EU	Rating	Type	Manufacturer	Model No.	Serial No.
NY27	1,818hp; 1,250 kW	Diesel Emergency Generator	Caterpillar	3512TA	24Z06937
NY28	1,818hp; 1,250 kW	Diesel Emergency Generator	Caterpillar	3512TA	24Z06932
NY29	1,818hp; 1,250 kW	Diesel Emergency Generator	Caterpillar	3512TA	24Z06931
NY37	1.999 MMBtu/hr	Boiler	RBI	Futura III, MB2000	110540862
NY38	1.999 MMBtu/hr	Boiler	RBI	Futura III, MB2000	110540863
NY40		Carpentry Shop with Dust Collector	Murphy Rodgers	MRSE-13-4D	1003
NY42	1.999 MMBtu/hr	Boiler	RBI	Futura III, MB2000	20952475
NY43	1.999 MMBtu/hr	Boiler	RBI	Futura III, MB2000	10952259
NY44	1.999 MMBtu/hr	Boiler	RBI	Futura III, MB2000	10952225
NY45	1.999 MMBtu/hr	Pool Heater	RBI	MB2000	071364989

Table III-C-6: PTE (tons per year) – New York – New York

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
NY27	1,818 hp	500 hr/yr	0.32	0.32	10.91	2.50	0.01	0.32	0.01
NY28	1,818 hp	500 hr/yr	0.32	0.32	10.91	2.50	0.01	0.32	0.01
NY29	1,818 hp	500 hr/yr	0.32	0.32	10.91	2.50	0.01	0.32	0.01
NY37	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
NY38	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
NY40		3,640 hrs/yr	0.04	0.04	0.00	0.00	0.00	0.00	0.00
NY42	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
NY43	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
NY44	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
NY45	1.999 MMBtu/hr	--	0.07	0.07	0.10	0.32	0.01	0.05	0.02
Totals			**1.42**	**1.42**	**33.88**	**9.42**	**0.09**	**1.26**	**0.15**

Table III-C-7: PTE (pounds per hour) – New York – New York

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
NY27	1,818 hp	1.17	1.17	40.22	9.22	0.02	1.08	0.31
NY28	1,818 hp	1.17	1.17	40.22	9.22	0.02	1.08	0.31
NY29	1,818 hp	1.17	1.17	40.22	9.22	0.02	1.08	0.31
NY37	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
NY38	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
NY40		0.02	0.02	0.00	0.00	0.00	0.00	0.00
NY42	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
NY43	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
NY44	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
NY45	1.999 MMBtu/hr	0.01	0.01	0.02	0.07	0.01	0.01	0.01

Monte Carlo

Table III-C-8: Summary of Emission Units – Monte Carlo

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MC001	12.6 MMBtu/hr	Boiler	Universal Energy	BF300L	248-EG
MC002	12.6 MMBtu/hr	Boiler	Universal Energy	BF300L	249-EG
MC003	12.6 MMBtu/hr	Boiler	Universal Energy	BF300L	250-EG
MC004	12.6 MMBtu/hr	Boiler	Universal Energy	BF300L	251-EG
MC014	3,393 gpm	Cooling Tower	Baltimore Air Coil	31213A-RM	U053137701MAD
MC015	3,393 gpm	Cooling Tower	Baltimore Air Coil	31213A-RM	U053137702MAD
MC016	3,393 gpm	Cooling Tower	Baltimore Air Coil	31213A-RM	U053137703MAD
MC017	3,393 gpm	Cooling Tower	Baltimore Air Coil	31213A-RM	U053137704MAD
MC018	3,393 gpm	Cooling Tower	Baltimore Air Coil	31213A-RM	U053137705MAD
MC019	2,172 hp; 1,500 kW	Diesel Emergency Generator	Caterpillar	3512	6WN00081
MC020	2,172 hp; 1,500 kW	Diesel Emergency Generator	Caterpillar	3512	6WN00082
MC021	348 hp; 260 kW	Diesel Emergency Generator	Clarke-Detroit	DDFPT6FA 840IV	6VF213751
MC022	343 hp; 230 kW	Diesel Emergency Generator	Caterpillar	3306	9NR02273
MC024	3,000 dscfm	Carpentry Shop with Dust Collector	Donaldson-Torit	UMA250	3857951-01-01-01

Table III-C-9: PTE (tons per year) – Monte Carlo

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MC001	12.6 MMBtu/hr	--	0.41	0.41	2.02	4.09	0.03	0.30	0.10
MC002	12.6 MMBtu/hr	--	0.41	0.41	2.02	4.09	0.03	0.30	0.10
MC003	12.6 MMBtu/hr	--	0.41	0.41	2.02	4.09	0.03	0.30	0.10
MC004	12.6 MMBtu/hr	--	0.41	0.41	2.02	4.09	0.03	0.30	0.10
MC014	3,393 gpm	--	0.53	0.53	0.00	0.00	0.00	0.00	0.00
MC015	3,393 gpm	--	0.53	0.53	0.00	0.00	0.00	0.00	0.00
MC016	3,393 gpm	--	0.53	0.53	0.00	0.00	0.00	0.00	0.00
MC017	3,393 gpm	--	0.53	0.53	0.00	0.00	0.00	0.00	0.00
MC018	3,393 gpm	--	0.53	0.53	0.00	0.00	0.00	0.00	0.00
MC019	2,172 hp	500 hr/yr	0.38	0.38	13.03	2.99	0.01	0.38	0.02
MC020	2,172 hp	500 hr/yr	0.38	0.38	13.03	2.99	0.01	0.38	0.02
MC021	348 hp	500 hr/yr	0.19	0.19	2.70	0.58	0.01	0.22	0.01
MC022	343 hp	500 hr/yr	0.19	0.19	2.66	0.57	0.01	0.22	0.01
MC024	3,000 dscfm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
Totals			**6.03**	**6.03**	**39.50**	**23.49**	**0.16**	**2.40**	**0.46**

Table III-C-10: PTE (pounds per hour) – Monte Carlo

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MC001	12.6 MMBtu/hr	0.09	0.09	0.46	0.93	0.01	0.07	0.02
MC002	12.6 MMBtu/hr	0.09	0.09	0.46	0.93	0.01	0.07	0.02
MC003	12.6 MMBtu/hr	0.09	0.09	0.46	0.93	0.01	0.07	0.02
MC004	12.6 MMBtu/hr	0.09	0.09	0.46	0.93	0.01	0.07	0.02
MC014	3,000 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
MC015	3,000 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
MC016	3,000 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
MC017	3,000 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
MC018	3,000 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
MC019	2,172 hp	1.52	1.52	52.13	11.95	0.03	1.53	0.07
MC020	2,172 hp	1.52	1.52	52.13	11.95	0.03	1.53	0.07
MC021	348 hp	0.77	0.77	10.79	2.32	0.01	0.87	0.02
MC022	343 hp	0.75	0.75	10.63	2.29	0.01	0.86	0.02
MC024	3,000 dscfm	0.14	0.14	0.00	0.00	0.00	0.00	0.00

Signature

Table III-C-11: Summary of Emission Units – Signature

EU	Rating	Type	Manufacturer	Model No.	Serial No.
TBA01	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1000	K04H00170956
TBA02	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1000	K04H00170957
TBA03	0.50 MMBtu/hr	Boiler	Lochinvar	PBN-0500	K04H00170954
TBA04	0.50 MMBtu/hr	Boiler	Lochinvar	PBN-0500	K04H00170955
TBA05	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171227
TBA06	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171228
TBA07	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171229
TBA08	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171230
TBA09	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171231
TBA10	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171232
TBA11	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171233
TBA12	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171234
TBA13	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171235

EU	Rating	Type	Manufacturer	Model No.	Serial No.
TBA14	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	K04H00171236
TBA15	1,180 hp	Diesel Emergency Generator	Caterpillar	3412CTA	1EZ07104
TBB01	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1001	H0500178777
TBB02	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1001	H0500178778
TBB03	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0501PM	L05H00182363
TBB04	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0501PM	L05H00182364
TBB05	0.50 MMBtu/hr	Boiler	Lochinvar	PBN-0501	A06H00183059
TBB06	0.50 MMBtu/hr	Boiler	Lochinvar	PBN-0501	A06H00183060
TBB07	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182643
TBB08	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182644
TBB09	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182645
TBB10	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182646
TBB11	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182655
TBB12	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182656
TBB13	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182657
TBB14	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0751PM	L05H00182658
TBB15	2,520	Diesel Emergency Generator	Caterpillar	3516 BTA	GZR00237
TBB16	3600 gpm	Cooling Tower	Baltimore Aircoil	31213A	J053430901VAD
TBB17	3600 gpm	Cooling Tower	Baltimore Aircoil	31213A	J053430902VAD
TBB18	3600 gpm	Cooling Tower	Baltimore Aircoil	31213A	J053430903VAD
TBB19	3600 gpm	Cooling Tower	Baltimore Aircoil	31213A	U065367301VAD
TBC01	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1000	B06H00184073
TBC02	1.0 MMBtu/hr	Boiler	Lochinvar	PBN-1000	BH6H00184074
TBC03	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0500	E06H00186881
TBC04	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0500	E06H00186895
TBC05	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186899
TBC06	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186900
TBC07	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186898
TBC08	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186880
TBC09	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186897
TBC10	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186596
TBC11	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186547
TBC12	0.75 MMBtu/hr	Boiler	Lochinvar	PFN-0750	E06H00186548
TBC13	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0500	E06H00187161
TBC14	0.50 MMBtu/hr	Boiler	Lochinvar	PFN-0500	E06H00187162

Table III-C-12: PTE (tons per year) – Signature

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
TBA01	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBA02	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBA03	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBA04	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBA05	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBA06	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBA07	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA08	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
TBA09	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA10	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA11	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA12	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA13	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA14	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBA15	1,180 hp	500 hrs/yr	0.21	0.21	7.08	1.62	0.01	0.21	0.01
TBB01	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBB02	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBB03	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBB04	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBB05	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBB06	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBB07	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB08	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB09	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB10	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB11	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB12	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB13	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB14	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBB15	2,520 hp	500	0.44	0.44	15.12	3.47	0.01	0.44	0.02
TBB16	3,600 gpm, 0.001% Drift Loss	--	0.11	0.11	0.00	0.00	0.00	0.00	0.00
TBB17	3,600 gpm, 0.001% Drift Loss	--	0.11	0.11	0.00	0.00	0.00	0.00	0.00
TBB18	3,600 gpm, 0.001% Drift Loss	--	0.11	0.11	0.00	0.00	0.00	0.00	0.00
TBB19	3,600 gpm, 0.001% Drift Loss	--	0.11	0.11	0.00	0.00	0.00	0.00	0.00
TBC01	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBC02	1.0 MMBtu/hr	7,000 hrs/yr	0.03	0.03	0.13	0.26	0.01	0.02	0.01
TBC03	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC04	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC05	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC06	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC07	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC08	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC09	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC10	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC11	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC12	0.75 MMBtu/hr	7,000 hrs/yr	0.02	0.02	0.10	0.19	0.01	0.01	0.01
TBC13	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
TBC14	0.50 MMBtu/hr	7,000 hrs/yr	0.01	0.01	0.06	0.13	0.01	0.01	0.01
Totals			**1.89**	**1.89**	**26.18**	**12.89**	**0.44**	**1.13**	**0.45**

Table III-C-13: PTE (pounds per hour) – Signature

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
TBA01	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBA02	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBA03	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBA04	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBA05	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA06	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA07	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA08	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA09	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA10	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA11	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA12	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA13	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA14	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBA15	1,180 hp	0.83	0.83	28.32	6.49	0.01	0.83	0.04
TBB01	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBB02	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBB03	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBB04	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBB05	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBB06	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBB07	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB08	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB09	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB10	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB11	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB12	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB13	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB14	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBB15	2,345 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
TBB16	3,600 gpm, 0.001% Drift Loss	0.03	0.03	0.00	0.00	0.00	0.00	0.00
TBB17	3,600 gpm, 0.001% Drift Loss	0.03	0.03	0.00	0.00	0.00	0.00	0.00
TBB18	3,600 gpm, 0.001% Drift Loss	0.03	0.03	0.00	0.00	0.00	0.00	0.00
TBB19	3,600 gpm, 0.001% Drift Loss	0.03	0.03	0.00	0.00	0.00	0.00	0.00
TBC01	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBC02	1.0 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
TBC03	0.75 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBC04	0.75 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
TBC05	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC06	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC07	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC08	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC09	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC10	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC11	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC12	0.75 MMBtu/hr	0.01	0.01	0.03	0.06	0.01	0.01	0.01
TBC13	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
TBC14	0.50 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01

Mandalay Bay

Table III-C-14: Summary of Emission Units – Mandalay Bay

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MB001	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2218
MB002	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2217
MB003	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2216
MB004	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2215
MB009	5.0 MMBtu/hr	Boiler	Bryan	RV500	81771
MB010	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8358
MB011	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8359
MB012	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8360
MB013	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8357
MB014	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8356
MB015	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8355
MB016	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-40-97-8350
MB017	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-40-97-8349
MB018	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-40-97-8348
MB019	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-40-97-8239
MB020	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8366
MB021	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8367
MB022	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-44-97-8413
MB023	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8361
MB024	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8362
MB025	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8363
MB026	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8364
MB027	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8351
MB028	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8352
MB029	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8353
MB030	1.90 MMBtu/hr	Boiler	Patterson-Kelley	D1900-2	CJ-43-97-8354
MB031	1.90 MMBtu/hr	Boiler	Patterson-Kelley	N1900-2	CJ-43-97-8396
MB032	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	N1900-2	CJ-43-97-8395
MB033	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	D1900-2	CJ-37-98-9504
MB034	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	D1900-2	CJ-39-98-9612
MB035	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	D1900-2	CJ-39-98-9613
MB036	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	D1900-2	CJ-08-98-8615
MB037	1.90 MMBtu/hr	Water Boiler	Patterson-Kelley	D1900-2	CJ-08-98-8613
MB039	1.75 MMBtu/hr	Water Heater	RBI	FH 1950S	109918042
MB040	1.75 MMBtu/hr	Water Heater	RBI	FH 1950S	109918043
MB041	1.75 MMBtu/hr	Water Heater	RBI	FH 1950S	109918044
MB042	1.8 MMBtu/hr	Water Heater	Lochinvar	CFN-1800	D028018
MB043	1.8 MMBtu/hr	Water Heater	Lochinvar	CFN-1800	D028019
MB044	2.75 MMBtu/hr	Boiler	Unilux	ZF250HS	2804
MB045	2.75 MMBtu/hr	Boiler	Unilux	ZF250HS	2805
MB049	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2808
MB050	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2806
MB051	20.0 MMBtu/hr	Boiler	Unilux	ZF2000W	2807
MB055	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	303206420
MB056	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	303206419

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MB057	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	
MB058	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	303206421
MB059	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	303206422
MB060	1.8 MMBtu/hr	Boiler	Raypak	WH9-1802	303206423
MB061	2,168 hp; 1,618 kW	Diesel Emergency Generator	Caterpillar	3516 DITA	25Z06027
MB062	2,168 hp; 1,618 kW	Diesel Emergency Generator	Caterpillar	3516 DITA	25Z02994
MB063	2,168 hp; 1,618 kW	Diesel Emergency Generator	Caterpillar	3516 DITA	25Z03002
MB064	240 hp; 179 kW	Diesel Fire Pump	Cummins	413	45574278
MB065	208 hp; 155 kW	Diesel Fire Pump	Cummins	403	45593028
MB066	2,518 hp; 1,925 kW	Diesel Emergency Generator	Caterpillar	3516 DITA	3NS00234
MB067	2220 hp	Diesel Emergency Generator	Cummins	KTA50-G9	33146939
MB068	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-001
MB069	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-002
MB070	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-003
MB071	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-004
MB072	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-005
MB077	3200 gpm	Cooling Tower	Marley	NCC262CS-97	122096-010
MB078	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-A1
MB079	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-B2
MB080	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-B1
MB081	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-A2
MB082	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-C1
MB083	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-D2
MB084	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-D1
MB085	3200 gpm	Cooling Tower	Marley	NC8311G-2	216412-C2
MB086	600 gpm	Cooling Tower	Baltimore Aircoil		
MB087		Spray Booth	Binks	Semi-Custom	27’x21’x10’
MB088		Carpentry Shop with Dust Collector	Murphy-Rogers	MRSE-16-4-D	S/N 1039
MB089	1,000 Gallons	Aboveground Storage Tank	Convault	RNE1000 3SF	M734031
MB090	5.4 MMBtu/hr	Boiler	Unilux	ZF500HS	3140
MB091	1.95 MMBtu/hr	Water Heater	RBI Futera II	FB1950NE2ACSS	30331380
MB092	1.95 MMBtu/hr	Water Heater	RBI Futera II	FB1950NE2ACSS	30331381
MB093	2,172 hp; 1,500 kW	Diesel Emergency Generator	Caterpillar	3512	1GZ01339

EU	Rating	Type	Manufacturer	Model No.	Serial No.
MB094	4.3 MMBtu/hr	Boiler	Hurst Scotch Marine	S500-150-77M	S4-X-100-150
MB095	0.199 MMBtu/hr	Hot Water Heater	A.O. Smith	BTH 199-970	1211M001212
MB096	0.199 MMBtu/hr	Hot Water heater	A.O. Smith	BTH 199-970	1225M000672
MB097	0.399 MMBtu/hr	Boiler	Raypak	CR406A-EN-C ASME	1006310946
MB098	0.399 MMBtu/hr	Boiler	Raypak	CR406A-EN-C ASME	1012316967
MB099	0.399 MMBtu/hr	Boiler	Raypak	CR406A-EN-X ASME	0610256847
MB100	3200 gpm	Cooling Tower	Evapco	AT-228-0924	11-45672
MB101	3200 gpm	Cooling Tower	Evapco	AT-228-0924	11-45674
MB102	3200 gpm	Cooling Tower	Evapco	AT-228-0924	
MB103	3200 gpm	Cooling Tower	Evapco	AT-228-0924	
MB104		Spray Booth	Col-Met	IB-06-07-05	
MB105		Spray Booth	Col-Met	IBB-04-07-02	
MB106	2,500 cfm	Carpentry Shop with Dust Collector	Donaldson Torit	20 Cyclone	3758157

Table III-C-15: PTE (tons per year) – Mandalay Bay

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB001	20.0 MMBtu/hr	18,000 hrs/yr	1.34	1.34	6.30	2.70	0.11	0.97	0.33
MB002	20.0 MMBtu/hr								
MB003	20.0 MMBtu/hr								
MB004	20.0 MMBtu/hr								
MB009	5.00 MMBtu/hr	--	0.16	0.16	0.77	2.96	0.01	0.12	0.04
MB010	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB011	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB012	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB013	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB014	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB015	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB016	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB017	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB018	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB019	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB020	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB021	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB022	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB023	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB024	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB025	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB026	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB027	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB028	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB029	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB030	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB031	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB032	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB033	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB034	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB035	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB036	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB037	1.90 MMBtu/hr	--	0.06	0.06	0.40	0.68	0.01	0.04	0.02
MB039	1.75 MMBtu/hr	--	0.06	0.06	0.37	0.58	0.01	0.04	0.01
MB040	1.75 MMBtu/hr	--	0.06	0.06	0.37	0.58	0.01	0.04	0.01
MB041	1.75 MMBtu/hr	--	0.06	0.06	0.37	0.58	0.01	0.04	0.01
MB042	1.80 MMBtu/hr	--	0.06	0.06	0.38	0.65	0.01	0.04	0.01
MB043	1.80 MMBtu/hr	--	0.06	0.06	0.38	0.65	0.01	0.04	0.01
MB044	2.75 MMBtu/hr	--	0.09	0.09	0.44	0.45	0.01	0.06	0.02
MB045	2.75 MMBtu/hr	--	0.09	0.09	0.44	0.45	0.01	0.06	0.02
MB049	20.0 MMBtu/hr	22,000 hrs/yr	1.65	1.65	8.05	16.32	0.13	1.19	0.42
MB050	20.0 MMBtu/hr								
MB051	20.0 MMBtu/hr								
MB055	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB056	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB057	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB058	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB059	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB060	1.80 MMBtu/hr	--	0.06	0.06	0.27	0.28	0.01	0.04	0.01
MB061	2,168 bhp	500	0.38	0.38	13.01	2.98	0.01	0.38	0.02
MB062	2,168 bhp	500	0.38	0.38	13.01	2.98	0.01	0.38	0.02
MB063	2,168 bhp	500	0.38	0.38	13.01	2.98	0.01	0.38	0.02
MB064	240 bhp	500	0.13	0.13	1.86	0.40	0.01	0.15	0.01
MB065	208 bhp	500	0.11	0.11	1.61	0.35	0.01	0.13	0.01
MB066	2,518 bhp	500	0.44	0.44	15.11	3.46	0.01	0.44	0.02
MB067	2,220 bhp	500	0.39	0.39	13.32	3.05	0.01	0.39	0.02
MB068	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB069	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB070	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB071	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB072	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB077	3,200 gpm	--	0.60	0.60	0.00	0.00	0.00	0.00	0.00
MB078	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB079	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB080	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB081	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB082	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB083	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB084	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB085	3,200 gpm	7,200 hrs/yr	0.49	0.49	0.00	0.00	0.00	0.00	0.00
MB086	600 gpm	500 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
MB087	N/A	3,839 gallons/yr	0.01	0.01	0.00	0.00	0.00	4.97	0.99
MB088	N/A	1200 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
MB089	1,000 Gal	20,000 gal/yr	0.00	0.00	0.00	0.00	0.00	0.84	0.01
MB090	5.4 MMBtu/hr	--	0.18	0.18	1.16	1.56	0.01	0.13	0.04
MB091	1.95 MMBtu/hr	--	0.03	0.03	0.20	0.34	0.01	0.02	0.01
MB092	1.95 MMBtu/hr	--	0.03	0.03	0.20	0.34	0.01	0.02	0.01

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB093	2,172 bhp	500	0.38	0.38	13.03	2.99	0.01	0.38	0.02
MB094	4.3 MMBtu/hr	--	0.14	0.14	0.28	0.70	0.01	0.10	0.03
MB095	0.199 MMBtu/hr	--	0.01	0.01	0.06	0.03	0.01	0.01	0.01
MB096	0.199 MMBtu/hr	--	0.01	0.01	0.06	0.03	0.01	0.01	0.01
MB097	0.399 MMBtu/hr	--	0.01	0.01	0.12	0.14	0.01	0.01	0.01
MB098	0.399 MMBtu/hr	--	0.01	0.01	0.12	0.14	0.01	0.01	0.01
MB099	0.399 MMBtu/hr	--	0.01	0.01	0.12	0.14	0.01	0.01	0.01
MB100	3,200 gpm	--	0.21	0.21	0.00	0.00	0.00	0.00	0.00
MB101	3,200 gpm	--	0.21	0.21	0.00	0.00	0.00	0.00	0.00
MB102	3,200 gpm	--	0.21	0.21	0.00	0.00	0.00	0.00	0.00
MB103	3,200 gpm	--	0.21	0.21	0.00	0.00	0.00	0.00	0.00
MB104	6’4”x7’2”x7’8”	780 gallons/yr	0.00	0.00	0.00	0.00	0.00	2.56	1.20
MB105	4’4”x7’2”x4’2”	780 gallons/yr	0.00	0.00	0.00	0.00	0.00	0.22	0.10
MB106	2,500 cfm	1,600 hrs/yr	0.05	0.05	0.00	0.00	0.00	0.00	0.00
Totals			**17.13**	**17.13**	**116.97**	**69.25**	**0.83**	**15.51**	**4.07**

Table III-C-16: PTE (pounds per hour) – Mandalay Bay

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB001	20.0 MMBtu/hr	0.15	0.15	0.70	0.30	0.01	0.11	0.04
MB002	20.0 MMBtu/hr	0.15	0.15	0.70	0.30	0.01	0.11	0.04
MB003	20.0 MMBtu/hr	0.15	0.15	0.70	0.30	0.01	0.11	0.04
MB004	20.0 MMBtu/hr	0.15	0.15	0.70	0.30	0.01	0.11	0.04
MB009	5.00 MMBtu/hr	0.04	0.04	0.18	0.68	0.01	0.03	0.01
MB010	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB011	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB012	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB013	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB014	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB015	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB016	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB017	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB018	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB019	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB020	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB021	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB022	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB023	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB024	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB025	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB026	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB027	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB028	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB029	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB030	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB031	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB032	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB033	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB034	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB035	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB036	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB037	1.90 MMBtu/hr	0.01	0.01	0.09	0.16	0.01	0.01	0.01
MB039	1.75 MMBtu/hr	0.01	0.01	0.09	0.13	0.01	0.01	0.01
MB040	1.75 MMBtu/hr	0.01	0.01	0.09	0.13	0.01	0.01	0.01
MB041	1.75 MMBtu/hr	0.01	0.01	0.09	0.13	0.01	0.01	0.01
MB042	1.80 MMBtu/hr	0.01	0.01	0.09	0.14	0.01	0.01	0.01
MB043	1.80 MMBtu/hr	0.01	0.01	0.09	0.14	0.01	0.01	0.01
MB044	2.75 MMBtu/hr	0.02	0.02	0.10	0.10	0.01	0.01	0.01
MB045	2.75 MMBtu/hr	0.02	0.02	0.10	0.10	0.01	0.01	0.01
MB049	20.0 MMBtu/hr	0.15	0.15	0.73	1.48	0.01	0.11	0.04
MB050	20.0 MMBtu/hr	0.15	0.15	0.73	1.48	0.01	0.11	0.04
MB051	20.0 MMBtu/hr	0.15	0.15	0.73	1.48	0.01	0.11	0.04
MB055	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB056	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB057	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB058	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB059	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB060	1.8 MMBtu/hr	0.01	0.01	0.06	0.06	0.01	0.01	0.01
MB061	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
MB062	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
MB063	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
MB064	240 bhp	0.53	0.53	7.44	1.60	0.01	0.60	0.01
MB065	208 bhp	0.46	0.46	6.45	1.39	0.01	0.52	0.01
MB066	2,518 bhp	1.76	1.76	60.43	13.85	0.03	1.78	0.08
MB067	2,220 bhp	1.55	1.55	53.28	12.21	0.03	1.57	0.07
MB068	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB069	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB070	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB071	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB072	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB077	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB078	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB079	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB080	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB081	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB082	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB083	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB084	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB085	3,200 gpm	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MB086	600 gpm	0.42	0.42	0.00	0.00	0.00	0.00	0.00
MB088	2.0 lbs/hr	0.02	0.02	0.00	0.00	0.00	0.00	0.00
MB090	5.4 MMBtu/hr	0.04	0.04	0.26	0.36	0.01	0.03	0.01
MB091	1.95 MMBtu/hr	0.01	0.01	0.05	0.08	0.01	0.01	0.01
MB092	1.95 MMBtu/hr	0.01	0.01	0.05	0.08	0.01	0.01	0.01
MB093	2,172 bhp	1.52	1.52	52.13	11.95	0.03	1.53	0.07
MB094	4.3 MMBtu/hr	0.03	0.03	0.06	0.16	0.01	0.02	0.01
MB095	0.199 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
MB096	0.199 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
MB097	0.399 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
MB098	0.399 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
MB099	0.399 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
MB100	3,200 gpm	0.17	0.17	0.00	0.00	0.00	0.00	0.00

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
MB101	3,200 gpm	0.17	0.17	0.00	0.00	0.00	0.00	0.00
MB102	3,200 gpm	0.17	0.17	0.00	0.00	0.00	0.00	0.00
MB103	3,200 gpm	0.17	0.17	0.00	0.00	0.00	0.00	0.00
MB104	6'4"x7'2"x7'8"	0.00	0.00	0.00	0.00	0.00	0.59	0.27
MB105	4'4"x7'2"x4'2"	0.00	0.00	0.00	0.00	0.00	0.05	0.02
MB106	2,500 cfm	0.06	0.06	0.00	0.00	0.00	0.00	0.00

Four Seasons

Table III-C-17: Summary of Emission Units – Four Seasons

EU	Rating	Type	Manufacturer	Model No.	Serial No.
FS001	1.9 MMBtu/hr	Boiler	Patterson-Kelley	SD-1900-2	CJ2098-8888
FS002	1.9 MMBtu/hr	Boiler	Patterson-Kelley	SD-1900-2	CJ20-98-8889
FS003	1.9 MMBtu/hr	Boiler	Patterson-Kelley	SD-1900-2	CJ20-98-8891

Table III-C-18: PTE (tons per year) – Four Seasons

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
FS001	1.9 MMBtu/hr	7,500 hrs/yr	0.06	0.06	0.27	0.45	0.01	0.06	0.03
FS002	1.9 MMBtu/hr								
FS003	1.9 MMBtu/hr								
Totals			**0.06**	**0.06**	**0.27**	**0.45**	**0.01**	**0.06**	**0.03**

Table III-C-18: PTE (pounds per hour) – Four Seasons

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
FS001	1.9 MMBtu/hr	0.01	0.01	0.07	0.12	0.01	0.01	0.01
FS002	1.9 MMBtu/hr	0.01	0.01	0.07	0.12	0.01	0.01	0.01
FS003	1.9 MMBtu/hr	0.01	0.01	0.07	0.12	0.01	0.01	0.01

Luxor

Table III-C-20: Summary of Emission Units – Luxor

EU	Rating	Type	Manufacturer	Model No.	Serial No.
LX002	21.0 MMBtu/hr	Boiler	Bryan	RW 2100-W-FDG-WLX	73501
LX003	21.0 MMBtu/hr	Boiler	Bryan	RW 2100-W-FDG-WLX	73505
LX004	21.0 MMBtu/hr	Boiler	Bryan	RW 2100-W-FDG-WLX	73518
LX005	8.5 MMBtu/hr	Boiler	Bryan	RW 850-S-150-FDG-WLX	79526
LX006	8.5 MMBtu/hr	Boiler	Bryan	RW 850-S-150-FDG-WLX	79543
LX008	1.99 MMBtu/hr	Pool Heater	Teledyne	PNCP2000NACC2BJN	C04106373
LX009	2,168 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z03005
LX010	2,168 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02998
LX011	2,168 hp	Diesel Emergency Generator	Caterpillar	3516TA	25Z02999
LX012	500 hp	Diesel Emergency	Detroit	DDFP-L8FA 8176	8VF-155634

EU	Rating	Type	Manufacturer	Model No.	Serial No.
		Fire Pump			
LX013	708 hp	Diesel Emergency Fire Pump	Detroit	DDFP8FH8178V	8VF-155357
LX015	3,600 gpm	Cooling Tower	Baltimore	31213A	U040981802MAD
LX016	3,600 gpm	Cooling Tower	Baltimore	31213A	U040981803MAD
LX017	3,600 gpm	Cooling Tower	Baltimore	31213A	U040981801MAD
LX018	3,600 gpm	Cooling Tower	Baltimore	31213A	U040981804MAD
LX019	3,750 gpm	Cooling Tower	Baltimore	31213A	U040981805MAD
LX022	26’6”x19’6”x9’	Spray Booth	Binks		
LX023		Carpentry Shop with Dust Collector	American Cyclone	ACH-BF-24	138169
LX024	2,206 hp; 1,500 kW	Natural Gas/ Diesel Emergency Generator	Caterpillar	3512C	EGB00199
LX025	2,206 hp; 1,500 kW	Natural Gas/ Diesel Emergency Generator	Caterpillar	3512C	EGB00203
LX029	0.399 MMBtu/hr	Pool Heater	Teledyne	ESC400NX	F96PA0146
LX030	0.4896 MMBtu/hr	“Believe” Show Natural Gas Burner Ring			
LX031	3,600 gpm	Cooling Tower	Baltimore	31213A	U065065501
LX032	3,600 gpm	Cooling Tower	Baltimore	31213A	U065065502
LX033	3,600 gpm	Cooling Tower	Baltimore	31213A	U065065503
LX034	0.399 MMBtu/hr	Spa Heater	Raypak	C-R406A-EN-X ASME	1212349894
LX035	0.399 MMBtu/hr	Spa Heater	Raypak	C-R406A-EN-X ASME	1303354597

Table III-C-21: PTE (tons per year) – Luxor

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
LX002	21.0 MMBtu/hr	8,760 hrs/yr	0.70	0.70	2.89	6.09	0.04	0.48	0.18
LX003	21.0 MMBtu/hr	8,760 hrs/yr	0.70	0.70	2.89	6.09	0.04	0.48	0.18
LX004	21.0 MMBtu/hr	8,760 hrs/yr	0.70	0.70	2.89	6.09	0.04	0.48	0.18
LX005	8.50 MMBtu/hr	12,000 hrs/yr	0.38	0.38	1.60	4.20	0.03	0.28	0.09
LX006	8.50 MMBtu/hr								
LX008	1.99 MMBtu/hr	5,000 hrs/yr	0.04	0.04	0.18	0.18	0.01	0.03	0.01

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
LX009	2,168 bhp	500 hrs/yr	0.38	0.38	13.01	2.98	0.01	0.38	0.02
LX010	2,168 bhp	500 hrs/yr	0.38	0.38	13.01	2.98	0.01	0.38	0.02
LX011	2,168 bhp	500 hrs/yr	0.38	0.38	13.01	2.98	0.01	0.38	0.02
LX012	500 hp	500 hrs/yr	0.28	0.28	3.88	0.84	0.01	0.31	0.01
LX013	708 bhp	500 hrs/yr	0.12	0.12	4.25	0.97	0.01	0.12	0.01
LX015	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX016	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX017	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX018	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX019	3,750 gpm	--	0.58	0.58	0.00	0.00	0.00	0.00	0.00
LX022	N/A	240 gal/yr	0.00	0.00	0.00	0.00	0.00	0.82	0.45
LX023	N/A	--	0.04	0.04	0.00	0.00	0.00	0.00	0.00
LX024	2,206 hp	500 hrs/yr	0.05	0.05	7.50	0.99	0.01	0.18	0.10
LX025	2,206 hp	500 hrs/yr	0.05	0.05	7.50	0.99	0.01	0.18	0.10
LX029	0.399 MMBtu/hr	--	0.01	0.01	0.17	0.14	0.01	0.01	0.01
LX030	Approximately 0.4896 MMBtu/hr	2,620,800 scf/yr	0.01	0.01	0.13	0.11	0.01	0.01	0.01
LX031	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX032	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX033	3,600 gpm	--	0.56	0.56	0.00	0.00	0.00	0.00	0.00
LX034	0.399 MMBtu/hr	8,760 hrs/yr	0.01	0.01	0.17	0.14	0.01	0.01	0.01
LX035	0.399 MMBtu/hr	8,760 hrs/yr	0.01	0.01	0.17	0.14	0.01	0.01	0.01
Totals			**8.74**	**8.74**	**73.23**	**35.90**	**0.28**	**4.55**	**1.39**

Table III-C-22: PTE (pounds per hour) – Luxor

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
LX002	21.0 MMBtu/hr	0.16	0.16	0.66	1.39	0.01	0.11	0.04
LX003	21.0 MMBtu/hr	0.16	0.16	0.66	1.39	0.01	0.11	0.04
LX004	21.0 MMBtu/hr	0.16	0.16	0.66	1.39	0.01	0.11	0.04
LX005	8.50 MMBtu/hr	0.01	0.01	0.08	0.14	0.01	0.01	0.01
LX006	8.50 MMBtu/hr	0.01	0.01	0.08	0.14	0.01	0.01	0.01
LX008	1.99 MMBtu/hr	0.02	0.02	0.07	0.07	0.01	0.01	0.01
LX009	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
LX010	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
LX011	2,168 bhp	1.52	1.52	52.03	11.92	0.03	1.53	0.07
LX012	500 hp	1.10	1.10	15.50	3.34	0.01	1.26	0.02
LX013	708 bhp	0.50	0.50	16.99	3.89	0.01	0.50	0.02
LX015	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX016	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX017	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX018	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX019	3,750 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX023		0.02	0.02	0.00	0.00	0.00	0.00	0.00
LX024	2,206 hp	1.54	1.54	52.94	12.13	0.03	1.56	0.07
LX025	2,206 hp	1.54	1.54	52.94	12.13	0.03	1.56	0.07
LX029	0.399 MMBtu/hr	0.01	0.01	0.01	0.03	0.01	0.01	0.01
LX030	0.4896 MMBtu/hr	0.02	0.02	0.24	0.20	0.01	0.01	0.01

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
LX031	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX032	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX033	3,600 gpm	0.13	0.13	0.00	0.00	0.00	0.00	0.00
LX034	0.399 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01
LX035	0.399 MMBtu/hr	0.01	0.01	0.04	0.03	0.01	0.01	0.01

Table III-C-23: PTE of Emission Units (pounds/month) – Luxor

EU	Rating	Conditions	VOC	HAP
LX022	6.84 lb/gal VOC	24 gal/month	164.16	90.29
PTE (pounds/month)			**164.16**	**90.29**

Excalibur

Table III-C-24: Summary of Emission Units – Excalibur

EU	Rating	Type	Manufacturer	Model No.	Serial No.
EX001	29.3 MMBtu/hr	Boiler	Superior	700 W	2380
EX002	29.3 MMBtu/hr	Boiler	Superior	700 W	2381
EX003	29.3 MMBtu/hr	Boiler	Superior	700 W	2382
EX004	2.1 MMBtu/hr	Water Heater	Lochinvar	CSN2065	C014610
EX005	2.1 MMBtu/hr	Water Heater	Lochinvar	CSN2070	L02H00149907
EX006	2.2 MMBtu/hr	Water Heater	Teledyne	AP2200EN18CC	C93C01615
EX007	1,592 hp; 1,200 kW	Diesel Emergency Generator	Caterpillar	3512	24Z02774
EX008	1,592 hp; 1,200 kW	Diesel Emergency Generator	Caterpillar	3512	24Z02784
EX009	1,592 hp; 1,200 kW	Diesel Emergency Generator	Caterpillar	3512	24Z02770
EX010	1,592 hp; 1,200 kW	Diesel Emergency Generator	Caterpillar	3512	24Z02753
EX011	270 hp	Diesel Emergency Fire Pump	Caterpillar	PL927-89	03Z8914
EX012	350 hp	Diesel Emergency Fire Pump	Caterpillar	3406B	6TB05883
EX013	3,300 gpm	Cooling Tower	Baltimore Aircoil	33424-2X	97222481
EX014	3,300 gpm	Cooling Tower	Baltimore Aircoil	33424-2X	97222462
EX015	3,300 gpm	Cooling Tower	Baltimore Aircoil	33424-2X	97222472
EX016	21’x24’x10’	Spray Booth	Sprayline	FDG20249	FAF24U
EX018	64.4 hp	Diesel Emergency Generator	Spectrum 30	30DS60	354543
EX019		Carpentry Shop with Dust Collector	Murphy-Rodgers	MRM-124D	1553
EX020	0.99 MMBtu/hr	Pool Heater	Lochinvar	CPN 0991	CO7H00196350
EX021	1.8 MMBtu/hr	Pool Heater	Lochinvar	CPN 1801	CO7H00196352
EX025	0.199 MMBtu/hr	Hot Water Heater	A.O. Smith	BTH 199-970	MLO300-02-3147
EX026	0.199 MMBtu/hr	Hot Water Heater	A.O. Smith	BTH 199-970	MLO300-02-3146

EU	Rating	Type	Manufacturer	Model No.	Serial No.
EX027	0.27 MMBtu/hr	Pool Heater	Raypak	C-R267A-EN-C	411227811
EX028	0.25 MMBtu/hr	Spa Heater	Raypak	C-R266A-EN-C	1008313339
EX029	0.25 MMBtu/hr	Spa Heater	Raypak	C-R266-A-EN-C	4111227811
EX030	0.25 MMBtu/hr	Spa Heater	Raypak	C-R266-A-EN-C	1106325858
EX031	1.90 MMBtu/hr	Boiler	Patterson-Kelley	N-1900-2	CK38-98-9543
EX032	207 hp	Diesel Emergency Generator	Cummins	6CT8.3-G2	45748231
EX033	600 gpm	Cooling Tower	Baltimore Aircoil	F1462-PM	99201761
EX034	174 hp	Diesel Emergency Generator	Cummins	B5.9-C	21337208
EX035	174 hp	Diesel Emergency Generator	Cummins	B5.9-C	21337209

Table III-C-25: PTE (tons per year) – Excalibur

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
EX001	29.30 MMBtu/hr	12,000 hrs/yr	1.31	1.31	5.52	11.60	0.10	0.95	0.32
EX002	29.30 MMBtu/hr								
EX003	29.30 MMBtu/hr								
EX004	2.1 MMBtu/hr	--	0.07	0.07	0.34	0.34	0.01	0.05	0.02
EX005	2.1 MMBtu/hr	--	0.07	0.07	0.34	0.34	0.01	0.05	0.02
EX006	2.2 MMBtu/hr	--	0.07	0.07	0.35	0.36	0.01	0.05	0.02
EX007	1,592 hp	500 hrs/yr	0.28	0.28	9.55	2.19	0.01	0.28	0.01
EX008	1,592 hp	500 hrs/yr	0.28	0.28	9.55	2.19	0.01	0.28	0.01
EX009	1,592 hp	500 hrs/yr	0.28	0.28	9.55	2.19	0.01	0.28	0.01
EX010	1,592 hp	500 hrs/yr	0.28	0.28	9.55	2.19	0.01	0.28	0.01
EX011	270 hp	500 hrs/yr	0.15	0.15	2.09	0.45	0.01	0.17	0.01
EX012	350 hp	500 hrs/yr	0.19	0.19	2.71	0.58	0.01	0.22	0.01
EX013	3,300 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
EX014	3,300 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
EX015	3,300 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
EX016		900 gal/yr	0.01	0.01	0.00	0.00	0.00	0.80	0.12
EX018	64.4 hp	500	0.04	0.04	0.50	0.11	0.01	0.04	0.01
EX019		1,200 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
EX020	0.99 MMBtu/hr	--	0.03	0.03	0.16	0.32	0.01	0.02	0.01
EX021	1.8 MMBtu/hr	--	0.06	0.06	0.29	0.59	0.01	0.04	0.01
EX025	0.199 MMBtu/hr	--	0.01	0.01	0.06	0.03	0.01	0.01	0.01
EX026	0.199 MMBtu/hr	--	0.01	0.01	0.06	0.03	0.01	0.01	0.01
EX027	0.27 MMBtu/hr	--	0.01	0.01	0.08	0.05	0.01	0.01	0.01
EX028	0.25 MMBtu/hr	--	0.01	0.01	0.11	0.09	0.01	0.01	0.01
EX029	0.25 MMBtu/hr	--	0.01	0.01	0.11	0.09	0.01	0.01	0.01
EX030	0.25 MMBtu/hr	--	0.01	0.01	0.11	0.09	0.01	0.01	0.01
EX031	1.90 MMBtu/hr	--	0.06	0.06	0.30	0.31	0.01	0.04	0.02
EX032	207 hp	500 hrs/yr	0.11	0.11	1.60	0.35	0.01	0.13	0.01
EX033	600 gpm	--	0.18	0.18	0.00	0.00	0.00	0.00	0.00
EX034	174 hp	500 hrs/yr	0.10	0.10	1.35	0.29	0.01	0.11	0.01
EX035	174 hp	500 hrs/yr	0.10	0.10	1.35	0.29	0.01	0.11	0.01
Totals			**5.25**	**5.25**	**55.64**	**25.06**	**0.32**	**3.96**	**0.71**

Table III-C-26: PTE (pounds per hour) – Excalibur

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
EX001	29.30 MMBtu/hr	0.22	0.22	0.92	1.93	0.02	0.16	0.05
EX002	29.30 MMBtu/hr	0.22	0.22	0.92	1.93	0.02	0.16	0.05
EX003	29.30 MMBtu/hr	0.22	0.22	0.92	1.93	0.02	0.16	0.05
EX004	2.1 MMBtu/hr	0.02	0.02	0.08	0.08	0.01	0.01	0.01
EX005	2.1 MMBtu/hr	0.02	0.02	0.08	0.08	0.01	0.01	0.01
EX006	2.2 MMBtu/hr	0.02	0.02	0.08	0.08	0.01	0.01	0.01
EX007	1,592 hp	1.11	1.11	38.21	8.76	0.02	1.12	0.05
EX008	1,592 hp	1.11	1.11	38.21	8.76	0.02	1.12	0.05
EX009	1,592 hp	1.11	1.11	38.21	8.76	0.02	1.12	0.05
EX010	1,592 hp	1.11	1.11	38.21	8.76	0.02	1.12	0.05
EX011	270 hp	0.59	0.59	8.37	1.80	0.01	0.68	0.01
EX012	350 hp	0.77	0.77	10.85	2.34	0.01	0.88	0.02
EX013	3,300 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
EX014	3,300 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
EX015	3,300 gpm	0.12	0.12	0.00	0.00	0.00	0.00	0.00
EX018	64.4 hp	0.14	0.14	2.00	0.43	0.01	0.16	0.01
EX019		0.57	0.57	0.00	0.00	0.00	0.00	0.00
EX020	0.99 MMBtu/hr	0.01	0.01	0.04	0.07	0.01	0.01	0.01
EX021	1.8 MMBtu/hr	0.01	0.01	0.07	0.13	0.01	0.01	0.01
EX025	0.199 MMBtu/hr	0.01	0.01	0.01	0.01	0.01	0.01	0.01
EX026	0.199 MMBtu/hr	0.01	0.01	0.01	0.01	0.01	0.01	0.01
EX027	0.27 MMBtu/hr	0.01	0.01	0.02	0.01	0.01	0.01	0.01
EX028	0.25 MMBtu/hr	0.01	0.01	0.01	0.02	0.01	0.01	0.01
EX029	0.25 MMBtu/hr	0.01	0.01	0.01	0.02	0.01	0.01	0.01
EX030	0.25 MMBtu/hr	0.01	0.01	0.01	0.02	0.01	0.01	0.01
TM001	1.90 MMBtu/hr	0.01	0.01	0.09	0.14	0.01	0.01	0.01
EX032	207 hp	0.46	0.46	6.42	1.38	0.01	0.52	0.01
TM003	600 gpm	0.04	0.04	0.00	0.00	0.00	0.00	0.00
EX034	174 hp	0.38	0.38	5.39	1.16	0.01	0.44	0.01
EX035	174 hp	0.38	0.38	5.39	1.16	0.01	0.44	0.01

Bellagio

Table III-C-27: Summary of Emission Units – Bellagio

EU	Rating	Type	Manufacturer	Model No.	Serial No.
BE07	2.0 MMBtu/hr	Boiler	Bryan Steam Corp.	RV200S	81606
BE09	3.5 MMBtu/hr	Pool Heater	Raypak	P-3500	9801146092
BE10	3.0 MMBtu/hr	Pool Heater	Raypak	P-3001	9801146003
BE32	1.0 MMBtu/hr	Water Heater	Aerco		G-97-201
BE35	1.0 MMBtu/hr	Water Heater	Aerco		G-97-205
BE37	1.0 MMBtu/hr	Water Heater	Aerco		G-96-471
BE38	1.0 MMBtu/hr	Water Heater	Aerco		G-97-210
BE57	1.0 MMBtu/hr	Water Heater	Aerco		G-96-517
BE58	1.0 MMBtu/hr	Water Heater	Aerco		G-96-498
BE59	1.0 MMBtu/hr	Water Heater	Aerco		G-96-514
BE68	1.36 MMBtu/hr (See BE097)	Spray Booth Heater	Bananza		3061000.154
BE74	18 MMBtu/hr (burner rated at	Boiler	Bryan		91446

EU	Rating	Type	Manufacturer	Model No.	Serial No.
	14.7 MMBtu/hr)				
BE75	18 MMBtu/hr (burner rated at 14.7 MMBtu/hr)	Boiler	Bryan		91388
BE76	18 MMBtu/hr (burner rated at 14.7 MMBtu/hr)	Boiler	Bryan		91416
BE80	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05330
BE81	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05335
BE82	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05333
BE83	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05332
BE84	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05339
BE85	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05338
BE86	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	25Z05340
BE87	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	1LZ00545
BE88	2,520 hp; 1,750 kW	Diesel Emergency Generator	Caterpillar	3416	1LZ00546
BE89	55.2 hp	Diesel Emergency Generator	Whisper Watt		7200884
BE90	33,750 gpm (9-Cell)	Cooling Tower	Ceramic	PCS2187	
BE91	3,000 gpm	Cooling Tower	Baltimore		U040161301MAD
BE92	3,000 gpm	Cooling Tower	Baltimore		U040161302MAD
BE93	3,000 gpm	Cooling Tower	Baltimore		U040161303MAD
BE94	140 gpm	Cooling Tower	Baltimore		U041435902MAD
BE95	140 gpm	Cooling Tower	Baltimore		U041435901MAD
BE96	14'W x 9'H x 26'D	Spray Booth	Binks	AA-530	
BE97	7' x 7' x 5'	Spray Booth (Closet)	Binks	I-121217	
BE98	13' x 14' x 23'-10" Pressurized Dry Filter Booth	Spray Booth (Showroom)	Binks	I-121217	
BE99		Powder Coating Booth	Nordson power System; Grieve Electric Oven		00497-8; 64130
BE100		Solvent Degreasing Operations			
BE101	764 hp	Diesel Emergency Generator	Caterpillar	CAT 3412	7WG03957

EU	Rating	Type	Manufacturer	Model No.	Serial No.
BE102	1.999 MMBtu/hr	Boiler	RBI Futera	MW2000	50746069
BE103	1.999 MMBtu/hr	Boiler	RBI Futera	MW2000	50746070
BE104	1.999 MMBtu/hr	Boiler	RBI Futera	MW2000	50746071
BE105	1.999 MMBtu/hr	Boiler	RBI Futera	MW2000	50746072
BE106	1.0 MMBtu/hr	Boiler	RBI Futera	MW1000	50746087
BE107	1.0 MMBtu/hr	Boiler	RBI Futera	MW1000	50746088
BE108	5000 gallon (3700 gallons gasoline/1300 gallons diesel)	Aboveground storage tank	SuperVault MH5000	Gasboy Dispenser 9852AX	Emco Wheaton Balance Nozzle
BE109		Carpentry Shop with Dust Collector	Aget	FT64-SP & 90B70-SP	1792 & 912
BE110		Carpentry Shop with Dust Collector	Torit	VS2400	IG465155
BE111	2.1 MMBtu/hr	Boiler	Hurst	Series 400 Wetback	S300-150-36
BE112	0.264 MMBtu/hr	Water Heater	Raypak	RP2100 C-R265B-EN	410227265
BE113	0.266 MMBtu/hr	Pool Heater	Raypak	C-R267A-EN-C	506237175
BE114	0.5115 MMBtu/hr	Pool Heater	Raypak	P-0514	412229726
BE116	0.266 MMBtu/hr	Water Heater	Raypak	C-R267A-EN-C ASME	412229039
BE117	0.266 MMBtu/hr	Water Heater	Raypak	C-R267A-EN-C ASME	412229044
BE118	0.1995 MMBtu/hr	Water Heater	Raypak	C-R206A-EN ASME	510242278
BE119	1.0 MMBtu/hr	Boiler	RBI	MW1000	80953935
BE120	1.0 MMBtu/hr	Boiler	RBI	MW1000	80953938
BE121	1.0 MMBtu/hr	Boiler	RBI	MW1000	80953876
BE122	1.0 MMBtu/hr	Boiler	RBI	MW1000	80953937
BE123	1.999 MMBtu/hr	Boiler	RBI	MW1000	80953927
BE124	1.999 MMBtu/hr	Boiler	RBI	MW1000	809539326
BE125	4.20 MMBtu/hr	Boiler	Hurst	A4-G-100-150	S500-150-191
BE126	5.25 MMBtu/hr	Boiler	Hurst	S4-G-125-150	S625-150-96
BE127	1.06 MMBtu/hr	Boiler	Aerco	INN1060	G10-2456
BE128	0.1995 MMBtu/hr	Spa Heater	Raypak	C-R207A-EN-C ASME	1001305556
BE129	0.1995 MMBtu/hr	Spa Heater	Raypak	C-R207A-EN-C ASME	909300852
BE130	0.1995 MMBtu/hr	Spa Heater	Raypak	C-R207A-EN-C ASME	1112334063
BE131	20.0 MMBtu/hr	Boiler	Hurst	S4-X-500-60W	S2500-60W-1
BE132	1.999 MMBtu/hr	Boiler	RBI	CW2000	11466678
BE133	0.2641 MMBtu/hr	Pool Heater	Raypak	BR265EN	9710143276

Table III-C-28: PTE (tons per year) – Bellagio

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
BE07	2.0 MMBtu/hr	4,745 hrs/yr	0.04	0.04	0.23	0.39	0.01	0.03	0.01
BE09	3.5 MMBtu/hr	--	0.11	0.11	0.75	1.26	0.01	0.08	0.03

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
BE10	3.0 MMBtu/hr	--	0.10	0.10	0.64	1.08	0.01	0.07	0.02
BE32	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE35	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE37	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE38	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE57	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE58	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE59	1.0 MMBtu/hr	--	0.03	0.03	0.16	0.16	0.01	0.02	0.01
BE68	1.36 MMBtu/hr	--	0.04	0.04	0.08	0.22	0.01	0.03	0.01
BE74	14.7 MMBtu/hr	--	0.48	0.48	0.92	2.33	0.04	0.35	0.12
BE75	14.7 MMBtu/hr	--	0.48	0.48	0.92	2.33	0.04	0.35	0.12
BE76	14.7 MMBtu/hr	--	0.48	0.48	0.92	2.33	0.04	0.35	0.12
BE80	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE81	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE82	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE83	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE84	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE85	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE86	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.44	0.02
BE87	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.41	0.02
BE88	2,520 hp	500 hrs/yr	0.44	0.44	15.12	3.47	0.01	0.41	0.02
BE89	55.2 hp	500 hrs/yr	0.03	0.03	0.43	0.09	0.01	0.03	0.01
BE90	33,750 gpm	--	1.57	1.57	0.00	0.00	0.00	0.00	0.00
BE91	3,000 gpm	--	0.70	0.70	0.00	0.00	0.00	0.00	0.00
BE92	3,000 gpm	--	0.70	0.70	0.00	0.00	0.00	0.00	0.00
BE93	3,000 gpm	--	0.70	0.70	0.00	0.00	0.00	0.00	0.00
BE94	140 gpm	--	0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE95	140 gpm	--	0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE96	7.90 lbs/gal	621 gal/yr	0.01	0.01	0.00	0.00	0.00	1.73	0.81
BE97	7.42 lbs/gal	100 gal/yr	0.01	0.01	0.00	0.00	0.00	0.24	0.11
BE98	7.9 lbs/gal	621 gal/yr	0.01	0.01	0.00	0.00	0.00	1.73	0.81
BE99	9.1 lbs/gal	910 gal/yr	0.01	0.01	0.00	0.00	0.00	0.01	0.01
BE100	6.8 lbs/gal VOC	660 gal/yr	0.00	0.00	0.00	0.00	0.00	2.24	2.24
BE101	764 hp	500 hrs/yr	0.13	0.13	4.58	1.05	0.01	0.13	0.01
BE102	1.999 MMBtu/hour	--	0.07	0.07	0.11	0.32	0.01	0.05	0.02
BE103	1.999 MMBtu/hour	--	0.07	0.07	0.11	0.32	0.01	0.05	0.02
BE104	1.999 MMBtu/hour	--	0.07	0.07	0.11	0.32	0.01	0.05	0.02
BE105	1.999 MMBtu/hour	--	0.07	0.07	0.11	0.32	0.01	0.05	0.02
BE106	1.0 MMBtu/hour	--	0.03	0.03	0.05	0.16	0.01	0.02	0.01
BE107	1.0 MMBtu/hour	--	0.03	0.03	0.05	0.16	0.01	0.02	0.01
BE108	3,700 gallons	264,000 gal/yr	0.00	0.00	0.00	0.00	0.00	0.44	0.01
BE109	N/A	2,600 hrs/yr	0.03	0.03	0.00	0.00	0.00	0.00	0.00
BE110	N/A	1,200 hrs/yr	0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE111	2.1 MMBtu/hr	--	0.07	0.07	0.22	0.34	0.01	0.05	0.02
BE112	0.264 MMBtu/hr	--	0.01	0.01	0.08	0.05	0.01	0.01	0.01
BE113	0.266 MMBtu/hr	--	0.01	0.01	0.08	0.05	0.01	0.01	0.01
BE114	0.5115	--	0.02	0.02	0.15	0.09	0.01	0.01	0.01

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
	MMBtu/hr								
BE116	0.266 MMBtu/hr	--	0.01	0.01	0.08	0.05	0.01	0.01	0.01
BE117	0.266 MMBtu/hr	--	0.01	0.01	0.08	0.05	0.01	0.01	0.01
BE118	0.1995 MMBtu/hr	--	0.01	0.01	0.06	0.03	0.01	0.01	0.01
BE119	1.0 MMBtu/hr	--	0.03	0.03	0.11	0.16	0.01	0.02	0.01
BE120	1.0 MMBtu/hr	--	0.03	0.03	0.11	0.16	0.01	0.02	0.01
BE121	1.0 MMBtu/hr	--	0.03	0.03	0.11	0.16	0.01	0.02	0.01
BE122	1.0 MMBtu/hr	--	0.03	0.03	0.11	0.16	0.01	0.02	0.01
BE123	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
BE124	1.999 MMBtu/hr	--	0.07	0.07	0.21	0.32	0.01	0.05	0.02
BE125	4.20 MMBtu/hr	--	0.14	0.14	0.90	1.51	0.01	0.10	0.03
BE126	5.25 MMBtu/hr	--	0.17	0.17	1.13	1.89	0.01	0.12	0.04
BE127	1.06 MMBtu/hr	--	0.03	0.03	0.23	0.38	0.01	0.03	0.01
BE128	0.1995 MMBtu/hr	--	0.01	0.01	0.09	0.07	0.01	0.01	0.01
BE129	0.1995 MMBtu/hr	--	0.01	0.01	0.09	0.07	0.01	0.01	0.01
BE130	0.1995 MMBtu/hr	--	0.01	0.01	0.09	0.07	0.01	0.01	0.01
BE131	20.0 MMBtu/hr	--	0.66	0.66	2.14	3.25	0.05	0.47	0.17
BE132	1.999 MMBtu/hr	--	0.07	0.07	0.86	0.72	0.01	0.05	0.02
BE133	0.2641 MMBtu/hr	--	0.01	0.01	0.11	0.10	0.01	0.01	0.01
Totals			**10.94**	**10.94**	**151.35**	**50.95**	**0.59**	**12.66**	**5.06**

Table III-C-29: PTE (pounds per hour) – Bellagio

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
BE07	2.0 MMBtu/hr	0.01	0.01	0.10	0.16	0.01	0.01	0.01
BE09	3.5 MMBtu/hr	0.03	0.03	0.17	0.29	0.01	0.02	0.01
BE10	3.0 MMBtu/hr	0.02	0.02	0.15	0.25	0.01	0.02	0.01
BE32	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE35	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE37	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE38	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE57	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE58	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE59	1.0 MMBtu/hr	0.01	0.01	0.04	0.04	0.01	0.01	0.01
BE68	1.36 MMBtu/hr	0.01	0.01	0.02	0.05	0.01	0.01	0.01
BE74	14.7 MMBtu/hr	0.11	0.11	0.21	0.53	0.01	0.08	0.03
BE75	14.7 MMBtu/hr	0.11	0.11	0.21	0.53	0.01	0.08	0.03
BE76	14.7 MMBtu/hr	0.11	0.11	0.21	0.53	0.01	0.08	0.03
BE80	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE81	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE82	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE83	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE84	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE85	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE86	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE87	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08
BE88	2,520 hp	1.76	1.76	60.48	13.86	0.03	1.78	0.08

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
BE89	55.2 hp	0.12	0.12	1.71	0.37	0.01	0.14	0.01
BE90	33,750 gpm	0.60	0.60	0.00	0.00	0.00	0.00	0.00
BE91	3,000 gpm	0.16	0.16	0.00	0.00	0.00	0.00	0.00
BE92	3,000 gpm	0.16	0.16	0.00	0.00	0.00	0.00	0.00
BE93	3,000 gpm	0.16	0.16	0.00	0.00	0.00	0.00	0.00
BE94	140 gpm	0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE95	140 gpm	0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE99	9.1 lbs/gal	0.00	0.00	0.00	0.00	0.00	0.01	0.01
BE101	764 hp	0.53	0.53	18.34	4.20	0.01	0.54	0.02
BE102	1.999 MMBtu/hour	0.01	0.01	0.02	0.07	0.01	0.01	0.01
BE103	1.999 MMBtu/hour	0.01	0.01	0.02	0.07	0.01	0.01	0.01
BE104	1.999 MMBtu/hour	0.01	0.01	0.02	0.07	0.01	0.01	0.01
BE105	1.999 MMBtu/hour	0.01	0.01	0.02	0.07	0.01	0.01	0.01
BE106	1.0 MMBtu/hour	0.01	0.01	0.01	0.04	0.01	0.01	0.01
BE107	1.0 MMBtu/hour	0.01	0.01	0.01	0.04	0.01	0.01	0.01
BE109		0.02	0.02	0.00	0.00	0.00	0.00	0.00
BE110		0.01	0.01	0.00	0.00	0.00	0.00	0.00
BE111	2.1 MMBtu/hr	0.02	0.02	0.05	0.08	0.01	0.01	0.01
BE112	0.264 MMBtu/hr	0.01	0.01	0.02	0.01	0.01	0.01	0.01
BE113	0.266 MMBtu/hr	0.01	0.01	0.02	0.01	0.01	0.01	0.01
BE114	0.5115 MMBtu/hr	0.01	0.01	0.03	0.02	0.01	0.01	0.01
BE116	0.266 MMBtu/hr	0.01	0.01	0.02	0.01	0.01	0.01	0.01
BE117	0.266 MMBtu/hr	0.01	0.01	0.02	0.01	0.01	0.01	0.01
BE118	0.1995 MMBtu/hr	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BE119	1.0 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
BE120	1.0 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
BE121	1.0 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
BE122	1.0 MMBtu/hr	0.01	0.01	0.02	0.04	0.01	0.01	0.01
BE123	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
BE124	1.999 MMBtu/hr	0.01	0.01	0.05	0.07	0.01	0.01	0.01
BE125	4.20 MMBtu/hr	0.03	0.03	0.20	0.35	0.01	0.02	0.01
BE126	5.25 MMBtu/hr	0.04	0.04	0.26	0.43	0.01	0.03	0.01
BE127	1.06 MMBtu/hr	0.01	0.01	0.05	0.09	0.01	0.01	0.01
BE128	0.1995 MMBtu/hr	0.01	0.01	0.02	0.02	0.01	0.01	0.01
BE129	0.1995 MMBtu/hr	0.01	0.01	0.02	0.02	0.01	0.01	0.01
BE130	0.1995 MMBtu/hr	0.01	0.01	0.02	0.02	0.01	0.01	0.01
BE131	20.0 MMBtu/hr	0.15	0.15	0.49	0.74	0.01	0.11	0.04
BE132	1.999 MMBtu/hr	0.01	0.01	0.20	0.16	0.01	0.01	0.01
BE133	0.2641 MMBtu/hr	0.01	0.01	0.03	0.02	0.01	0.01	0.01

City Center

Table III-C-30: Summary of Emission Units – City Center

EU	Rating	Type	Manufacturer	Model No.	Serial No.
CC005	4.2 MMBtu/hr	Boiler	Hurst	400	S500-150-151
CC006	4.2 MMBtu/hr	Boiler	Hurst	400	S500-150-152
CC007	4.6 MW (Nominal Electrical Rating)	Combustion Gas Turbine (CGT)	Solar	Mercury 50-6000R	PG06N11
CC008	4.6 MW	Combustion Gas	Solar	Mercury 50-	PG06N12

EU	Rating	Type	Manufacturer	Model No.	Serial No.
	(Nominal Electrical Rating)	Turbine (CGT)		6000R	
CC009	3,622 hp; 2,500 kW	Diesel Emergency Generator	Caterpillar	3516C	SBK00196
CC010	3,622 hp; 2,500 kW	Diesel Emergency Generator	Caterpillar	3516C	SBK00197
CC011	3,622 hp; 2,500 kW	Diesel Emergency Generator	Caterpillar	3516C	SBK00198
CC012	2937 hp	Diesel Emergency Generator	Caterpillar	3516C	SBJ00378
CC013	2937 hp	Diesel Emergency Generator	Caterpillar	3516C	SBJ00379
CC014	2937 hp	Diesel Emergency Generator	Caterpillar	3516C	SBJ00380
CC015	2937 hp	Diesel Emergency Generator	Caterpillar	3516C	SBJ00382
CC026	44 MMBtu/hr	Boiler	English	ACT08GSLE	26001-1
CC027	44 MMBtu/hr	Boiler	English	ACT08GSLE	26001-2
CC028	44 MMBtu/hr	Boiler	English	ACT08GSLE	26001-3
CC029	10,890 gpm	Cooling Tower Cell 1	Composite Cooling System	FM-4242-250-P6	1163
CC030	10,890 gpm	Cooling Tower Cell 2	Composite Cooling System	FM-4242-250-P6	1163
CC031	10,890 gpm	Cooling Tower Cell 3	Composite Cooling System	FM-4242-250-P6	1163
CC032	10,890 gpm	Cooling Tower Cell 4	Composite Cooling System	FM-4242-250-P6	1163
CC033	10,890 gpm	Cooling Tower Cell 5	Composite Cooling System	FM-4242-250-P6	1163
CC034	10,890 gpm	Cooling Tower Cell 6	Composite Cooling System	FM-4242-250-P6	1163
CC035	175 hp	Diesel Fire Pump	Clarke	JU6H-UF-34	PE6068T717220
CC036	175 hp	Diesel Fire Pump	Clarke	JU6H-UF-34	PE6068T717222
CC037	105 hp	Diesel Fire Pump	Clarke	JU6H-UF-40	PE4045T740064
CC038	105 hp	Diesel Fire Pump	Clarke	JU6H-UF-40	PE4045T740067
CC039	55 hp	Diesel Fire Pump	Clarke	JU6H-UF-40	BF4045D721508
CC040	55 hp	Diesel Fire Pump	Clarke	JU6H-UF-40	BF4045D724411

Table III-C-31: PTE (tons per year) – City Center

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
CC005	4.2 MMBtu/hr	5,800 hrs/yr	0.09	0.09	0.18	0.27	0.01	0.05	0.02
CC006	4.2 MMBtu/hr	5,800 hrs/yr	0.09	0.09	0.18	0.27	0.01	0.05	0.02
CC007	4.6 MW	--	3.75	3.75	3.28	1.00	0.13	0.46	0.18
CC008	4.6 MW	--	3.75	3.75	3.28	1.00	0.13	0.46	0.18
CC009	3,622 hp	500 hrs/yr	0.10	0.10	9.35	1.51	0.01	0.23	0.01
CC010	3,622 hp	500 hrs/yr	0.10	0.10	9.35	1.51	0.01	0.23	0.01
CC011	3,622 hp	500 hrs/yr	0.10	0.10	9.35	1.51	0.01	0.23	0.01
CC012	2,937 hp	500 hrs/yr	0.14	0.14	10.47	1.01	0.01	0.28	0.02
CC013	2,937 hp	500 hrs/yr	0.14	0.14	10.47	1.01	0.01	0.28	0.02
CC014	2,937 hp	500 hrs/yr	0.14	0.14	10.47	1.01	0.01	0.28	0.02
CC015	2,937 hp	500 hrs/yr	0.14	0.14	10.47	1.01	0.01	0.28	0.02

EU	Rating	Conditions	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
CC026	44 MMBtu/hr	5,800 hrs/yr	0.95	0.95	2.34	1.89	0.08	0.69	0.24
CC027	44 MMBtu/hr	5,800 hrs/yr	0.95	0.95	2.34	1.89	0.08	0.69	0.24
CC028	44 MMBtu/hr	5,800 hrs/yr	0.95	0.95	2.34	1.89	0.08	0.69	0.24
CC029	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC030	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC031	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC032	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC033	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC034	10,890 gpm	--	0.51	0.51	0.00	0.00	0.00	0.00	0.00
CC035	175 hp	500 hrs/yr	0.03	0.03	0.40	0.11	0.01	0.03	0.01
CC036	175 hp	500 hrs/yr	0.03	0.03	0.40	0.11	0.01	0.03	0.01
CC037	105 hp	500 hrs/yr	0.01	0.01	0.33	0.02	0.01	0.02	0.01
CC038	105 hp	500 hrs/yr	0.01	0.01	0.33	0.02	0.01	0.02	0.01
CC039	55 hp	500 hrs/yr	0.03	0.03	0.43	0.09	0.01	0.04	0.01
CC040	55 hp	500 hrs/yr	0.03	0.03	0.43	0.09	0.01	0.04	0.01
Totals			**14.61**	**14.61**	**86.18**	**17.25**	**0.65**	**5.09**	**1.30**

Table III-C-32: PTE (pounds per hour) – City Center

EU	Rating	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
CC005	4.2 MMBtu/hr	0.03	0.03	0.06	0.09	0.01	0.01	0.01
CC006	4.2 MMBtu/hr	0.03	0.03	0.06	0.09	0.01	0.01	0.01
CC007	4.6 MW	0.93	0.93	0.82	0.25	0.03	0.11	0.05
CC008	4.6 MW	0.93	0.93	0.82	0.25	0.03	0.11	0.05
CC009	3,622 hp	0.40	0.40	37.40	6.05	0.04	0.93	0.04
CC010	3,622 hp	0.40	0.40	37.40	6.05	0.04	0.93	0.04
CC011	3,622 hp	0.40	0.40	37.40	6.05	0.04	0.93	0.04
CC012	2,937 hp	0.57	0.57	41.87	4.05	0.04	1.13	0.09
CC013	2,937 hp	0.57	0.57	41.87	4.05	0.04	1.13	0.09
CC014	2,937 hp	0.57	0.57	41.87	4.05	0.04	1.13	0.09
CC015	2,937 hp	0.57	0.57	41.87	4.05	0.04	1.13	0.09
CC026	44 MMBtu/hr	0.33	0.33	0.81	0.65	0.03	0.24	0.08
CC027	44 MMBtu/hr	0.33	0.33	0.81	0.65	0.03	0.24	0.08
CC028	44 MMBtu/hr	0.33	0.33	0.81	0.65	0.03	0.24	0.08
CC029	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC030	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC031	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC032	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC033	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC034	10,890 gpm	0.12	0.00	0.00	0.00	0.00	0.00	0.00
CC035	175 hp	0.12	0.12	1.59	0.45	0.01	0.13	0.01
CC036	175 hp	0.12	0.12	1.59	0.45	0.01	0.13	0.01
CC037	105 hp	0.05	0.05	1.33	0.08	0.01	0.07	0.01
CC038	105 hp	0.05	0.05	1.33	0.08	0.01	0.07	0.01
CC039	55 hp	0.12	0.12	1.71	0.37	0.01	0.14	0.01
CC040	55 hp	0.12	0.12	1.71	0.37	0.01	0.14	0.01

Table III-C-33: Permitting Action Emissions Increase (tons per year)

Pollutant	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
Current Permit	97.04	97.04	741.09	339.72	16.33	71.72	23.08
Revised Title V Totals	92.47	92.47	749.27	332.27	4.01	69.27	22.12
Emissions Increase	Decrease		8.18	Decrease			
Minor Significance Levels	7.5	5	20	50	20	20	N/A

Table III-C-33 shows that no emissions increased above the Minor Significance Levels and therefore no controls analysis is required

D. Production Limitations and Control Technology Summary

Operational limits were set by the source. All emission units are permitted to allow for unlimited operation except for those listed below:

Table IV-D-1: Emission Units with Operational Limits

EU	EU Type	Operational Limit
TBA01-TBA14	Boiler	7,000 hrs/yr each
TBB01-TBB14		7,000 hrs/yr each
TBC01-TBC14		7,000 hrs/yr each
MB001-MB004		18,000 hrs/yr combined
MB049-MB051		22,000 hrs/yr combined
FS001-FS003		7,500 hrs/yr combined
LX002-LX004		27,000 hrs/yr combined
LX005-LX006		12,000 hrs/yr combined
LX008		5,000 hrs/yr
EX001-EX003		12,000 hrs/yr combined
BE07		4,745 hrs/yr
CC005-CC006		5,800 hrs/yr each
CC026-CC028		5,800 hrs/yr each
CC007-CC008	Turbine	44.5 MMBtu/hr
		357,408 MMBtu/yr
MB078-MB085	Cooling Towers	7,200 hrs/yr each
MB086		500 hrs/yr
MG46	GDO	99,000 gal/yr
MB089		20,000 gal/yr
BE108		264,000 gal/yr
MG29	Surface Coating	480 gal/yr
MG39		2,000 gal/yr
MG40		600 gal/yr
MB087		3,839 gal/yr
MB104 and MB105		780 gal/yr each
LX022		240 gal/yr
EX016		900 gal/yr
BE96-BE97		621 gal/yr each
BE98		100 gal/yr

EU	EU Type	Operational Limit
BE99		910 gal/yr
MG44	Woodworking Operations	1,200 hrs/yr
MG45		1,200 hrs/yr
NY40 and LX023		3,640 hrs/yr
MB088		1,200 hrs/yr
MB106		1,600 hrs/yr
EX019		1,200 hrs/yr
BE109		2,600 hrs/yr
BE110		1,200 hrs/yr
MG33	Degreaser	660 gal/yr
BE100		660 gal/yr
MG43	Pyrotechnics	3,191.3 lbs/yr
LX030		2,682,000 scf of natural gas

Previous BACT and LAER determinations remain in effect for all existing emission units.

No significance threshold is triggered by the increase in PTE due to the new emission units, increase in gpm for the three cooling towers, and the increase in generator ratings as shown in Table IV-D-2. Therefore, a controls analysis is not required. This analysis did not include the removed emission units.

Table IV-D-2: Emissions Increase (tons per year)

	PM_{10}	$PM_{2.5}$	NO_x	CO	SO_x	VOC	HAP
New Units	0.74	0.74	3.11	4.07	0.07	0.53	0.20
Increase in Cooling Towers	0.15	0.15	0.00	0.00	0.00	0.00	0.00
Increase In Generator Ratings	0.31	0.31	10.66	2.51	-1.74[1]	0.29	0.02
Emissions Increase	**1.20**	**1.20**	**13.77**	**6.58**	**-1.67**	**0.82**	**0.22**
Minor Significance Levels	**7.5**	**5**	**20**	**50**	**20**	**20**	**N/A**

[1]Decrease due to a reduction in sulfur content of diesel fuel.

E. Compliance Demonstration

Standard conditions remain in the permit. Hour meters are required for all emission units limited by hours, where practical. The source is required to keep records of throughput for all emission units limited by a throughput, such as gasoline and surface coating operations.

Opacity limits remain unchanged in this permitting action and visible emission checks are required.

F. Performance Testing

Performance testing is required to demonstrate the emissions outlined in the Part 70 OP. All boilers greater than 10.0 MMBtu/hr and the turbines at CityCenter are required to be tested every five years. This requirement has not changed from the previous permit.

The three gasoline dispensing operations (EUs: MG46, MB089 and BE108) are currently subject to performance testing every three years. This requirement has not changed from the previous permit.

G. Public Participation

Pursuant to AQR 12.5.2.17 and AQR 12.5.2.18(a)(1) any Part 70 OP Renewal is subject to a 30 days newspaper Notice of Public Action and 45 days EPA review period, respectively.

IV. REGULATORY REVIEW

A. Local Regulatory Requirements

Air Quality has determined that the following public law, statutes and associated regulations are applicable:

1. Clean Air Act, as amended (CAAA), Authority: 42 U.S.C. § 7401, et seq.;
2. Title 40 of the Code of Federal Regulations (CFR);
3. Nevada Revised Statutes (NRS), Chapter 445B;
4. Portions of the AQR that are included in the State Implementation Plan (SIP) for Clark County, Nevada. SIP requirements are federally enforceable. All requirements from Authority to Construct permits and Section 16 Operating Permits issued by Air Quality are federally enforceable because these permits were issued pursuant to SIP-included sections of the AQR; and
5. Portions of the AQR that are <u>not</u> included in the SIP. These locally applicable requirements are locally enforceable only.

The Nevada Revised Statutes (NRS) and the Clean Air Act Amendments (CAAA) are public laws that establish the general authority for the Regulations mentioned.

The Air Quality Part 70 (Title V) Program received Final Approval on November 30, 2001 with publication of that approval appearing in the Federal Register December 5, 2001 Vol. 66, No. 234. AQR Section 19 - Part 70 Operating Permits [Amended 07/01/04] details the Clark County Part 70 Operating Permit Program. On September 20, 2010, Clark County submitted a revision to the operating permit program (AQR 12.5) pursuant to 40 CFR Part 70.4(i)(2). EPA has not acted on that request yet. These regulations may be accessed on the Internet at: http://www.clarkcountynv.gov/depts/AirQuality/Pages/Rules_CurrentRulesandRegulations.aspx

Local regulations contain sections that are federally enforceable and sections that are locally enforceable only. Locally enforceable only rules have not been approved by EPA for inclusion into the State Implementation Plan (SIP). Requirements and conditions that appear in the Part 70 OP which are related only to non-SIP rules are notated as locally enforceable only.

Discussion: MRI is a major source located in Hydrographic Area (HA) 212 (Las Vegas Valley). Minor source baseline dates for NO_X (October 21, 1988) and SO_2 (June 29, 1979) have been triggered in HA 212. Since minor source baseline dates for NO_X (October 21, 1988) and SO_2 (June 29, 1979) have been triggered, Prevention of Significant Deterioration (PSD) increment analysis is required.

Air Quality modeled the source using AERMOD to track the increment consumption. Average actual emissions (2014-2015) were used for the generators in the NO_X modeling. Stack data submitted by the applicant were supplemented with information available for similar emission units. Five years (1999 to 2003) of meteorological data from the McCarran Station and Desert Rock Station were used in the model. United States Geological Survey (USGS) National Elevation Dataset (NED) terrain data was used to calculate elevations. Table IV-A-1 presents the results of the modeling.

Table IV-A-1: PSD Increment Consumption

Pollutant	Averaging Period	PSD Increment Consumption by the Source (μg/m³)	Location of Maximum Impact	
			UTM X (m)	UTM Y (m)
SO_2	3-hour	42.41[1]	665005	3997470
SO_2	24-hour	13.60[1]	665005	3997470
SO_2	Annual	3.21	664922	3997413
NO_X	Annual	15.98	664923	3997357

[1]Modeled Second High Concentration

Table IV-A-1 shows the location of the maximum impact and the potential PSD increment consumed by the source at that location. The impacts are below the PSD increment limits.

Table IV-A-2: Clark County Department of Air Quality – Air Quality and State Implementation Plan with Facility Compliance or Requirement

Applicable Section – Title	Applicable Subsection - Title	SIP	Affected EU
0. Definitions	applicable definitions	yes	entire facility
4. Control Officer	all subsections	partital	entire facility
5. Interference with Control Officer	all subsections	yes	entire facility
6. Injunctive Relief	all subsections	yes	entire facility
8. Persons Liable for Penalties - Punishment: Defense	all subsections	yes	entire facility
9. Civil Penalties	all subsections	no	entire facility
10. Compliance Schedule	when applicable; applicable subsections	yes	entire facility
12.4. Authority to Construct Application and Permits Requirements for Part 70 Sources	applicable subsections	yes	entire facility
12.5. Part 70 Operating Permit Requirements	applicable subsections	yes	entire facility
12.6. Confidentiality	all subsections	yes	entire facility
12.7. Emission Reduction Credits	all subsections	yes	entire facility
12.9. Annual Emission Inventory Requirement	all subsections	yes	entire facility
12.12. Transfer of Permit	all subsections	yes	entire facility

Applicable Section – Title	Applicable Subsection - Title	SIP	Affected EU
12.13. Posting of Permit	all subsections	yes	entire facility
13.2(b)(1). Emission Standards for Hazardous Air Pollutants	Subpart A – General Provisions	no	entire facility
13.2(b)(82). National Emission Standards for Hazardous Air Pollutants for Source Categories	Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	no	diesel engines
13.2(b)(106). National Emission Standards for Hazardous Air Pollutants for Source Categories	Subpart CCCCCC: National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	no	gasoline dispensing
14.1(b)(1). New Source Performance Standards	Subpart A – General Provisions	no	entire facility
14.1(b)(5). New Source Performance Standards	Subpart Dc: Standards of Performance for Small Industrial – Commercial – Institutional Steam Generating Units	no	boilers
14.1(b)(80). New Source Performance Standards	Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	no	diesel engines
18. Permit and Technical Service Fees	18.1 Operating Permit Fees 18.2 Annual Emission Unit Fees 18.4 New Source Review Application Review Fee 18.5 Part 70 Application Review Fee 18.6 Annual Part 70 Emission Fee 18.14 Billing Procedures	yes	entire facility
25.1 Upset/Breakdown, Malfunctions	25.1 Requirements for the excess emissions caused by upset/breakdown and malfunctions	no	entire facility
25.2 Upset/Breakdown, Malfunctions	25.2 Reporting and Consultation	yes	entire facility
26. Emission of Visible Air Contaminants	26.1 Limit on opacity (≤ 20 percent for 3 minutes in a 60-minute period)	yes	entire facility
28. Fuel Burning Equipment	28.2 Emission Limitations for PM	yes	entire facility
40. Prohibitions of Nuisance Conditions	40.1 Prohibitions	no	entire facility
41. Fugitive Dust	41.1 Prohibitions	yes	entire facility
42. Open Burning	42.2	no	entire facility
43. Odors In the Ambient Air	43.1 Prohibitions coded as Section 29	no	entire facility
70. Emergency Procedures	all subsections	yes	entire facility
80. Circumvention	all subsections	yes	entire facility
81. Provisions of Regulations Severable	all subsections	yes	entire facility

B. Federally Applicable Regulations

40 CFR PART 60 – STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES:

SUBPART A – GENERAL PROVISIONS

40 CFR 60.7 – Notification and record keeping

Discussion: This regulation requires notification to Air Quality of modifications, opacity testing, records of malfunctions of process equipment and performance test data. The Part 70 OP reflects these requirements. Note that Air Quality requires records to be maintained for five (5) years, a more stringent requirement than the two (2) years required by 40 CFR 60.7.

40 CFR 60.8 – Performance tests

Discussion: Notice of intent to test, the applicable test methods, and acceptable test method operating conditions are outlined in this regulation. Air Quality requirements for initial performance testing are identical to 40 CFR 60.8. Air Quality also requires periodic performance testing on emission units based upon throughput or usage. Air Quality also reserves the right to require more frequent testing.

40 CFR 60.11 – Compliance with standards and maintenance requirements.

Discussion: MRI is subject to three NSPS standards: Subpart Dc – Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and Subpart KKKK – Standards of Performance for Stationary Combustion Turbines. Compliance requirements for these standards are discussed in corresponding sections.

40 CFR 60.12 – Circumvention

Discussion: This prohibition is addressed in the Part 70 OP. This is also local rule AQR 80.1.

SUBPART Dc – STANDARDS OF PERFORMANCE FOR SMALL INDUSTRIAL - COMMERCIAL – INSTITUTIONAL STEAM GENERATING UNITS

40 CFR § 60.40c – Applicability and Delegation of Authority

Discussion: The boilers (EUs: MG13 through MG16, MG52, MG53, MC001 through MC004, MB001 through MB004, MB049 through MB051, LX002 through LX004, LX001 through LX003, BE74 through BE76, BE131, and CC026 through CC028) are each rated above 10 MMBtu per hour; therefore, Subpart Dc is applicable to these emission units.

40 CFR § 60.42c – Standard for Sulfur Dioxide

Discussion: This section does not pertain to boilers that exclusively fire natural gas.

40 CFR § 60.43c – Standard for Particulate Matter

Discussion: This section does not pertain to boilers that exclusively fire natural gas.

40 CFR § 60.48c – Reporting and Recordkeeping Requirements

Discussion: These are addressed in Sections III-A-7, III-C-7, III-E-7, III-G-7, III-I-7, and III-J-7 in the Part 70 operating permit.

SUBPART IIII – STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES

40 CFR 60.4200 – Applicability

Discussion: Subpart IIII applies to manufacturers, owners, and operators of stationary compression ignition internal combustion engines with a displacement less than 30 liters per cylinder where the model year is 2007 or later, for engines that are not fire pumps, and July 1, 2006, for ICE certified by National Fire Protection Association as fire pump engines. MRI operates emission units that are subject to this subpart.

40 CFR 60.4202 and 40 CFR 60.4205 – Emission Standards for Owners and Operators

Discussion: The operator of the stationary CI ICE must provide the manufacturer certification of the emission standard specified in this subpart. These requirements are addressed in the Part 70 OP.

40 CFR 60.4206 and 40 CFR 60.4211 – Compliance Requirements

Discussion: The operator of the stationary CI ICE must operate and maintain the CI ICE to achieve the emission standards according to the manufacturer's written instructions and procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. These requirements are addressed in the Part 70 OP.

40 CFR 60.4214 – Reporting and Recordkeeping Requirements

Discussion: The operator of the CI ICE shall keep records that include: engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; emission control equipment; and fuel used. If the stationary CI ICE is a certified engine, the owner or operator shall keep documentation from the manufacturer that the engine is certified to meet the emission standards. These requirements are addressed in the Part 70 OP.

SUBPART KKKK – STANDARDS OF PERFORMANCE FOR STATIONARY COMBUSTION TURBINES

40 CFR § 60.4305 – Applicability

Discussion: The nominal heat input rating of each of the proposed combustion gas turbines (EU: CC006 and CC007) is above the 10 MMBtu/hr threshold. Construction on the two units also commenced after February 18, 2005. Subpart KKKK, therefore, shall apply to emission units CC007 and CC008.

40 CFR § 60.4320 – Standard for nitrogen oxides

Discussion: The Solar combustion gas turbines (EUs: CC007 and CC008) are new turbines firing natural gas to generate electricity. Therefore, the turbines must emit less than 42 ppm NOx at 15 percent O_2. The source is limited to 5 ppm NOx as stipulated in the Part 70 OP.

40 CFR § 60.433 – Standard for sulfur dioxide

Discussion: The source must meet one of the following two conditions:

The source shall not cause to be discharged into the atmosphere from the combustion gas turbines any gases which contain in excess of 110 nanograms of SO_2 per Joule

(0.90 pounds per megawatt-hour gross output); or burn any fuel which contains total potential sulfur emission in excess of 26 nanograms SO_2 per Joule (0.06 pounds per MMBtu) heat input.

40 CFR § 60.4340 – Monitoring of operations

Discussion: Annual performance tests in accordance with 60.440, CEMs, or PEMS. For lean-mix turbines, the source must continually monitor the appropriate parameters to determine whether the unit is operating in low-NOx mode.

40 CFR § 60.4400 – Test methods and procedures

Discussion: These requirements are found in the conditions for performance testing found in Section III.J.6 of the Part 70 OP. For NOx, the source shall use EPA Method 7E or EPA Method 20.

PART 63 – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

SUBPART ZZZZ – NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES

40 CFR 63.6585 – Applicability

Discussion: Subpart ZZZZ applies to the diesel emergency generators and to the diesel fire pumps at this facility constructed prior to 2007. The diesel emergency generators and fire pumps are subject to the operationg provisions of 40 CFR 63, Subpart ZZZZ and shall limit the hours of testing and maintenance to 100 hours per year. As a commercial source, MRI is not subject to the other requirements of Subpart ZZZZ.

SUBPART CCCCCC – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORY: GASOLINE DISPENSING FACILITIES

40CFR 63.11111 – Applicability

Discussion: Subpart CCCCCC applies to MRI at this time as the source operates gasoline dispensing facilities (EUs: MG46, MB089, and BE108). Applicable requirements have been included in the permit.

40CFR 63.11116 – Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline

Discussion: The source is required to handle gasoline in a manner that would curb extended periods of vapor releases to the atmosphere. The measures to be taken are described in the Part 70 OP. The source is not required to submit notifications or reports, but must maintain records of gasoline throughput.

40 CFR PART 64 – COMPLIANCE ASSURANCE MONITORING

40 CFR 64.2 – Applicability

Discussion: MRI does not currently operate an emission unit that is subject to an emission limitation, that uses a control device to achieve compliance, that has uncontrolled emission rate

that would equal or exceed major source thresholds. Therefore CAM is not applicable to any of the emission units located at MRI.

40 CFR PART 72 – ACID RAIN PERMITS REGULATION

SUBPART A – ACID RAIN PROGRAM GENERAL PROVISIONS

40 CFR 72.6 – Applicability

Discussion: MRI does not operate any emission units subject to the provisions of this regulation.

V. COMPLIANCE

A. Compliance Certification

Regardless of the date of issuance of this Part 70 OP, the schedule for the submittal of reports to the Air Quality Compliance Supervisor shall be as follows:

Table V-A-1: Required Report Submission Dates

Required Report	Applicable Period	Due Date
Semi-annual Report for 1st Six-Month Period	January, February, March, April, May, June	July 30 each year[1]
Semi-annual Report for 2nd Six-Month Period, Any additional annual records required.	July, August, September, October, November, December	January 30 each year[1]
Annual Compliance Certification Report	Calendar Year	January 30 each year[1]
Annual Emission Inventory Report	Calendar Year	March 31 each year[1]
Notification of Malfunctions, Startup, Shutdowns or Deviations with Excess Emissions	As Required	Within 24 hours of the Permittee learns of the event
Report of Malfunctions, Startup, Shutdowns or Deviations with Excess Emissions	As Required	Within 72 hours of the notification
Deviation Report without Excess Emissions	As Required	Along with semi-annual reports[1]
Performance Testing	As Required	Within 60 days from the end of the test [1]

[1]If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

a. A statement of methods used for determining compliance, including a description of monitoring, recordkeeping, and reporting requirements and test methods.
b. A schedule for submission of compliance certifications during the Part 70 permit term.
c. A statement indicating the source's compliance status with any applicable enhanced monitoring and compliance certification requirements of the Act.

B. Compliance Summary

Table V-B-1: Compliance Summary

Citation	Title	Applicability	Applicable Test Method	Compliance Status
AQR Section 0	Definitions	Applicable – MRI will comply with all applicable definitions as they apply.	MRI will meet all applicable test methods should new definitions apply.	MRI complies with applicable requirements.
AQR Section 4	Control Officer	Applicable – The Control Officer or his representative may enter into MRI property, with or without prior notice, at any reasonable time for purpose of establishing compliance.	MRI will allow Control Officer to enter MRI properties as required.	MRI complies with applicable requirements.
AQR Section 11	Ambient Air Quality Standards	Applicable – MRI is a source of air pollutants.	EPA-approved dispersion modeling.	MRI complies with applicable requirements.
AQR Section 12.5	Part 70 Operating Permits	Applicable – MRI is a major stationary source and under Part 70. Renewal applications are due between 6 and 18 months prior to expiration. Revision applications will be submitted within 12 months of commencing operation of the new emission unit.	MRI submitted the initial Part 70 permit application within 12 months of startup. The renewal application was submitted within the appropriate timeframe.	MRI complies with applicable requirements.
AQR Section 13.2(b)(82) Subpart ZZZZ	NESHAP – Stationary Reciprocating Internal Combustion Engines	Applicable – The MRI diesel engines are the affected units.	Applicable monitoring and recordkeeping requirements.	MRI complies with applicable requirements.
AQR Section 13.2.(b)(160) Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	Applicable – The gasoline dispensing are the affected operations.	Applicable monitoring and recordkeeping requirements.	MRI complies with applicable requirements.
AQR Section 14.1(b)(1) Subpart A	NSPS – General Provisions	Applicable – MRI is an affected facility under the regulations. Sec. 14 is locally enforceable; however, the NSPS standards they reference are federally enforceable.	Applicable monitoring, recordkeeping and reporting requirements.	MRI complies with applicable requirements.
AQR Section 14.1(b)(5) Subpart Dc	Standards of Performance for Small Industrial – Commercial – Institutional Steam Generating Units	Applicable – MRI boilers are affected units under the regulations. Sec. 14 is locally enforceable; however, the NSPS standards they reference are federally enforceable.	Applicable monitoring, recordkeeping and reporting requirements.	MRI complies with applicable requirements.

Citation	Title	Applicability	Applicable Test Method	Compliance Status
AQR Section 18	Permit and Technical Service Fees	Applicable – MRI will be required to pay all required/applicable permit and technical service fees.	MRI is required to pay all required/applicable permit and technical service fees.	MRI complies with applicable requirements.
AQR Section 25	Upset/Breakdown, Malfunctions	Applicable – Any upset, breakdown, emergency condition, or malfunction which causes emissions of regulated air pollutants in excess of any permit limits shall be reported to Control Officer. Section 25.1 is locally and federally enforceable.	Any upset, breakdown, emergency condition, or malfunction in which emissions exceed any permit limit shall be reported to the Control Officer within one (1) hour of onset of such event. Section 25.1 is locally and federally enforceable.	MRI complies with applicable requirements.
AQR Section 26	Emissions of Visible Air Contaminants	Applicable – Opacity for the MRI combustion units must not exceed 20 percent for more than three (3) minutes in any 60-minute period.	Compliance determined by EPA Method 9	MRI complies with applicable requirements.
AQR Section 28	Fuel Burning Equipment	Applicable – The PM emission rate for the combustion turbines and duct burners are well below those established based on Section 28 requirements.	Maximum allowable PM emission rate determined from equation in Section 28.	MRI complies with applicable requirements.
AQR Section 40	Prohibition of Nuisance Conditions	Applicable – No person shall cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance. Section 40 is locally enforceable only.	MRI air contaminant emissions controlled by pollution control devices or good combustion in order not to cause a nuisance.	MRI complies with applicable requirements.
AQR Section 41	Fugitive Dust	Applicable – MRI shall take necessary actions to abate fugitive dust from becoming airborne.	MRI utilizes appropriate best practices to not allow airborne fugitive dust.	MRI complies with applicable requirements.
AQR Section 42	Open Burning	Applicable – In event MRI burns combustible material in any open areas, such burning activity will have been approved by Control Officer in advance. Section 42 is locally enforceable rule only.	MRI will contact Air Quality and obtain approval in advance for applicable burning activities as identified in the rule.	MRI complies with applicable requirements.
AQR Section 43	Odors in the Ambient Air	Applicable – An odor occurrence is a violation if the Control Officer is able to detect the odor twice within a period of an hour, if the odor causes a nuisance, and if the detection of odors is separated by at least fifteen minutes. Section 43 is a locally enforceable rule only.	MRI will not operate its facility in a manner which will cause odors.	MRI complies with applicable requirements.

Citation	Title	Applicability	Applicable Test Method	Compliance Status
40 CFR Part 52.21	Prevention of Significant Deterioration (including Preconstruction permits)	Applicable – MRI PTE > 250 tpy.	BACT analysis, air quality analysis using ISCST3, and visibility and additional impact analysis performed for original ATC permits.	MRI complies with applicable requirements.
40 CFR Part 52.1470	SIP Rules	Applicable – MRI is classified as a Title V source, and SIP rules apply.	Applicable monitoring and record keeping of emissions data.	MRI complies with applicable requirements.
40 CFR Part 60, Subpart A	Standards of Performance for New Stationary Sources (NSPS) – General Provisions	Applicable – MRI is an affected facility under the regulations.	Applicable monitoring, recordkeeping and reporting requirements.	MRI complies with applicable requirements.
40 CFR Part 60, Subpart Dc	New Source Performance Standards – Standards of Performance for Small Industrial – Commercial – Institutional Steam Generating Units	Applicable – MRI has boilers with heat input greater than 10 MMBtu/hr.	The boilers meet applicable NO_X and PM emission standards. NO_X emissions determined by EPA Method 7E and PM_{10} by EPA Method 201/201a and 202.	MRI complies with applicable requirements.
40 CFR Part 60	Appendix A, Method 9 or equivalent, (Opacity)	Applicable – Emissions from stacks are subject to opacity standards.	Opacity determined by EPA Method 9.	MRI complies with applicable requirements.
40 CFR Part 63	Emission Standards for Hazardous Air Pollutants – Subpart CCCCCC	Applicable – MRI has gasoline dispensing, therefore 40 CFR 63, Subpart CCCCCC applies.	Applicable recordkeeping and reporting requirements.	MRI complies with applicable requirements.
40 CFR Part 63	Emission Standards for Hazardous Air Pollutants –Subpart ZZZZ	Applicable – MRI has diesel engines, 40 CFR 63, Subpart ZZZZ applies.	Applicable recordkeeping and reporting requirements.	MRI complies with applicable requirements.
40 CFR Part 70	Federally Mandated Operating Permits	Applicable – MRI is a major stationary source and under Part 70 the initial Title V permit application was submitted as required. Renewal applications are due between 6 and 18 months prior to expiration. Revision applications will be submitted within 12 months or commencing operation of any new emission unit.	MRI reviewed the initial Part 70 permit dated December 30, 2010. The renewal application was submitted on June 29, 2015. Applications for new units will be submitted within 12 months of startup.	MRI complies with applicable requirements.

C. Permit Shield

MRI requested permit shield language for the NSPS and NESHAP applicable to the source.

Table V-C-1: Applicable Requirements Related to Permit Shield

Citation	Title
40 CFR Part 60, Subpart Dc	Standards of Performance for New Stationary Sources (NSPS) – Small Industrial-Commercial-Institutional Steam Generating Units
40 CFR Part 60, Subpart IIII	Standards of Performance for New Stationary Sources (NSPS) – Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)
40 CFR Part 60, Subpart KKKK	Standards of Performance for New Stationary Sources (NSPS) – Stationary Combustion Turbines
40 CFR 63, Subpart ZZZZ	National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines
40 CFR 63, Subpart CCCCCC	National Emission Standard for Hazardous Air Pollutants (NESHAP) for Source Category: Gasoline Dispensing Facilities

VI. EMISSION REDUCTION CREDITS (OFFSETS)

The source is subject to offset requirements in accordance with AQR Section 12.7. Offset requirements and associated mitigation are pollutant-specific. MRI is not subject to offset requirements in this permitting action.

VII. APPENDIX

Attachment 1: Insignificant Emission Units

Table 1: Summary of Insignificant EU or Activities

MGM Grand
Nederman Series 5000 Weld Shop Fume Extractor
500 gallon Aboveground Storage Tank, Diesel
Bradford White Boiler, M/N: D100L2703NA, S/N: WC8831314, 0.270 MMBtu/hr
New York – New York
0.325 MMBtu/hr Raypak Pool Heater, M/N NA, S/N: 404220541
0.334 MMBtu/hr Raypak Pool Heater, M/N NA, S/N 401215981
0.325 MMBtu/hr Raypak Pool Heater, M/N NA, S/N: 4032181426
Monte Carlo
0.45 MMBtu/hr Raypak heater (Laguna Pool), M/N: P0824A-Beduca, S/N: 9508125600
0.40 MMBtu/hr Raypak heater (K.Pool), M/N: C-R405-EN, S/N: 9511127953
0.40 MMBtu/hr Raypak heater (Spa), M/N: C-R405-EN, S/N: 9509126355
0.90 MMBtu/hr Hurst Boiler, M/N: 4V7-G-25-150, S/N: V61-150-15M
Mandalay Bay
0.90 MMBtu/hr Tank Type Lochinvar Water Heater
0.90 MMBtu/hr Tank Type Lochinvar Water Heater
0.90 MMBtu/hr Patterson-Kelley Boiler, M/N: M900-2, S/N: CJ-39-98-9595
0.70 MMBtu/hr Tank Type State Hot Water Heater
0.70 MMBtu/hr Tank Type State Hot Water Heater

0.04 MMBtu/hr Tank Type State Hot Water Heater
0.40 MMBtu/hr Laars Boiler, M/N: LD400NCL, S/N: B04NA0018
0.40 MMBtu/hr Laars Boiler, M/N: LD400NCL, S/N: B04NA0008
0.40 MMBtu/hr Laars Boiler, M/N: LD400NCL, S/N: B04NA0001
0.175 MMBtu/hr Space Heater
0.175 MMBtu/hr Space Heater
0.175 MMBtu/hr Space Heater
0.175 MMBtu/hr Space Heater
35 hp mobile gasoline-fired chipper
0.745 MMBtu/hr Lochinvar Boiler, M/N: CWN0745PM, S/N: F03H00155166
0.745 MMBtu/hr Lochinvar Boiler, M/N: CWN0745PM, S/N: F03H00155167
Four Seasons
0.90 MMBtu/hr Bryan Boiler, M/N: CL90-S-150-G1, S/N: 82907
40 lb Union DF-2000 Dry Cleaning Unit, M/N: 40E, S/N: N/A
Excalibur
0.264 MMBtu/hr Raypak Spa Heater, M/N: C-R265A-EN ASME, S/N 0310212229
0.264 MMBtu/hr Raypak Spa Heater, M/N: C-R265A-EN ASME, S/N 0310212226
0.327 MMBtu/hrRaypak (Raytherm) Hot Water Heater, M/N: H3-0400, S/N: 0207197574
0.40 MMBtu/hr Raypak Hot Water Heater, M/N: P-R405A EN, S/N: 0301012869
0.399 MMBtu/hr Raypak Hot Water Heater
0.264 MMBtu/hr Raypak Hot Water Heater
0.264 MMBtu/hr Raypak Hot Water Heater
0.20 MMBtu/hr Tank Type A.O. Smith Hot Water Heater
0.20 MMBtu/hr Tank Type A.O. Smith Hot Water Heater
500 gallon aboveground storage tank, diesel
Bellagio
0.512 MMBtu/hr Raypak Boiler, M/N: P-0514, S/N: 9801145935 (formerly BE11)
0.512 MMBtu/hr Raypak Boiler, M/N: P-0514, S/N: 9801145937 (formerly BE12)
0.512 MMBtu/hr Raypak Boiler, M/N: P-0514, S/N: 9801145939 (formerly BE13)
0.76 MMBtu/hr Raypak Boiler, M/N: P-0724, S/N: 9801145987 (formerly BE15)
0.76 MMBtu/hr Raypak Boiler, M/N: P-0724, S/N: 9801145986 (formerly BE16)
0.83 MMBtu/hr Raypak Boiler, M/N: P-0824, S/N: 9801145988 (formerly BE17)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143270 (formerly BE18)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143271 (formerly BE19)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143277 (formerly BE20)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143276 (formerly BE21)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143266 (formerly BE23)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143273 (formerly BE24)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143269 (formerly BE25)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143274 (formerly BE26)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143279 (formerly BE27)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143281 (formerly BE28)

0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143275 (formerly BE30)
0.26 MMBtu/hr Raypak Boiler, M/N: P-BR265EN, S/N: 9710143278 (formerly BE31)
0.26 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R265AL-EN, S/N: 0301204371 (formerly BE69)
0.26 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R265AL-EN, S/N: 0304207824 (formerly BE70)
0.26 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R265AL-EN, S/N: 0304207825 (formerly BE71)
0.26 MMBtu/hr Raypak Low-NOx Boiler, MC-R265AL-EN: NA, S/N: 0301204377 (formerly BE72)
0.26 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R265B-EN, S/N: 0405222001 (formerly BE73)
0.90 MMBtu/hr Bryan Boiler, M/N: AB90-S-150-FDG-LX, S/N: 91369 (formerly BE77)
0.90 MMBtu/hr Bryan Boiler, M/N: AB90-S-150-FDG-LX, S/N: 91343 (formerly BE78)
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185A-EN ASME, S/N 0302205255
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222210
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222211
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222212
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222213
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222214
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222215
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222216
0.181 MMBtu/hr Raypak Spa Heater, M/N RP2100 C-R185B, S/N 0407222217
0.266 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R267A-EN-C, S/N: 0412229238 (formerly BE20)
0.264 MMBtu/hr Raypak Low-NOx Boiler, M/N: C-R265AL-EN, S/N: 0304207824 (formerly BE31)