



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #1 Test #1

Model: S5281 S/N: 94458009 Filters: Miele SF-AH 50 Hepa Filter 10860-11
 Date Samples Received: 10-July 2009 Sample Source: Open Market Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	12	0	0	0	0	0	0
5	off	off	Downstream	15	1	2	0	0	0	0
5	off	off	Downstream	7	1	0	0	0	0	0
5	on	off	Downstream	56	24	12	4	4	0	0
5	on	off	Upstream	4	2	0	0	0	0	0
5	on	off	Downstream	68	56	8	8	24	8	12
5	on	off	Upstream	3	0	0	1	0	0	0
5	on	off	Downstream	72	28	4	4	0	4	4
5	on	off	Upstream	4	0	0	0	0	0	0
5	on	on	Upstream	42,324,840	21,066,480	3,862,440	2,036,520	763,800	157,320	25,680
5	on	on	Downstream	252	92	24	16	12	4	4
5	on	on	Upstream	41,964,240	20,726,640	3,774,600	2,000,040	747,360	154,320	26,880
5	on	on	Downstream	260	192	48	16	8	4	4
5	on	on	Upstream	42,060,600	20,917,320	3,833,520	2,001,120	760,200	159,480	24,840
5	on	on	Downstream	220	124	28	4	12	8	8
Total upstream				126,349,680	62,710,440	11,470,560	6,037,680	2,271,360	471,120	77,400
Total downstream				732	408	100	36	32	16	16
Net downstream				536	300	76	20	4	4	0
Gross Efficiency				99.999	99.999	99.999	99.999	99.999	99.997	99.98
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed By: DN

Data Location: DN73

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #1 Test #2

Model: S5281 S/N: 94458009

Filters: Miele SF-AH 50 Hepa Filter 10860-12

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	16	3	0	1	0	1	0
5	off	off	Downstream	18	2	0	1	0	0	0
5	off	off	Downstream	21	14	0	5	3	1	0
5	on	off	Downstream	56	28	32	20	4	4	8
5	on	off	Upstream	6	0	0	0	0	0	0
5	on	off	Downstream	120	52	8	28	12	12	0
5	on	off	Upstream	5	0	0	0	0	0	0
5	on	off	Downstream	76	40	16	24	20	16	0
5	on	off	Upstream	5	0	0	0	0	0	0
5	on	on	Upstream	40,614,840	19,808,160	3,643,920	1,938,960	743,040	159,120	31,440
5	on	on	Downstream	324	120	40	40	8	0	0
5	on	on	Upstream	40,781,160	20,032,320	3,751,440	1,987,440	762,120	164,400	25,560
5	on	on	Downstream	228	64	16	8	4	4	0
5	on	on	Upstream	40,605,600	19,765,680	3,622,680	1,923,600	759,120	161,760	27,720
5	on	on	Downstream	332	184	68	32	8	4	0
Total upstream				122,001,600	59,606,160	11,018,040	5,850,000	2,264,280	485,280	84,720
Total downstream				884	368	124	80	20	8	0
Net downstream				632	248	68	8	-16	-24	-8
Gross Efficiency				99.999	99.999	99.999	99.999	99.999	99.998	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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 pg 2/9 Performed By: DN

Data Location: DN73

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #1 Test #3

Model: S5281 S/N: 94458009

Filters: Miele SF-AH 50 Hepa Filter 10860-13

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	9	4	1	1	0	0	0
5	off	off	Downstream	16	1	1	0	1	0	0
5	off	off	Downstream	19	9	4	2	1	1	2
5	on	off	Downstream	72	48	32	32	16	16	8
5	on	off	Upstream	3	1	0	1	0	1	1
5	on	off	Downstream	56	36	28	4	12	8	4
5	on	off	Upstream	11	1	0	0	0	0	0
5	on	off	Downstream	92	68	32	36	24	12	12
5	on	off	Upstream	4	0	1	1	0	0	0
5	on	on	Upstream	41,241,480	20,494,080	3,883,440	2,055,960	807,120	178,920	31,440
5	on	on	Downstream	648	228	92	52	16	4	8
5	on	on	Upstream	40,809,720	20,253,000	3,789,360	2,002,560	783,000	170,520	27,000
5	on	on	Downstream	236	48	16	8	4	4	0
5	on	on	Upstream	41,015,280	20,504,280	3,844,440	2,032,560	808,680	174,000	30,720
5	on	on	Downstream	496	88	24	16	4	0	4
Total upstream				123,066,480	61,251,360	11,517,240	6,091,080	2,398,800	523,440	89,160
Total downstream				1,380	364	132	76	24	8	12
Net downstream				1,160	212	40	4	-28	-28	-12
Gross Efficiency				99.999	99.999	99.999	99.999	99.999	99.998	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed By: DN

Data Location: DN73

Reviewed By:

 Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #2 Test #1
 Model: S5281 S/N: 94458010

Filters: Miele SF-AH 50 Hepa Filter 10860-6

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	42	7	3	2	1	0	0
5	off	off	Downstream	40	4	1	1	0	0	0
5	off	off	Downstream	30	2	1	0	0	0	0
5	on	off	Downstream	408	20	8	0	4	4	0
5	on	off	Upstream	8	0	0	0	0	0	0
5	on	off	Downstream	404	16	12	4	4	4	0
5	on	off	Upstream	6	0	0	0	0	0	0
5	on	off	Downstream	396	12	0	0	4	12	4
5	on	off	Upstream	4	0	0	0	0	0	0
5	on	on	Upstream	37,571,040	16,774,200	2,901,120	1,439,280	526,440	110,040	22,320
5	on	on	Downstream	552	116	32	24	4	0	0
5	on	on	Upstream	37,029,840	16,505,640	2,812,920	1,411,440	512,160	114,000	19,920
5	on	on	Downstream	624	76	16	12	8	4	0
5	on	on	Upstream	37,486,920	16,763,760	2,898,000	1,444,920	528,000	108,360	23,280
5	on	on	Downstream	304	72	24	20	12	4	0
Total upstream				112,087,800	50,043,600	8,612,040	4,295,640	1,566,600	332,400	65,520
Total downstream				1,480	264	72	56	24	8	0
Net downstream				272	216	52	52	12	-12	-4
Gross Efficiency				99.999	99.999	99.999	99.999	99.998	99.998	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed By: DN

Data Location: DN73

Reviewed By:

 Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCl Neutralized

Description of Sample: Miele Callisto canister vacuum #2 Test #2

Model: S5281 S/N: 94458010

Filters: Miele SF-AH 50 Hepa Filter 10860-7

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)							
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75	
5	off	off	Downstream	48	9	5	2	0	2	1	
5	off	off	Downstream	36	2	0	1	1	0	0	
5	off	off	Downstream	40	7	5	6	4	1	0	
5	on	off	Downstream	376	32	8	4	4	0	0	
5	on	off	Upstream	4	0	0	0	0	0	0	
5	on	off	Downstream	364	0	4	0	4	8	0	
5	on	off	Upstream	5	0	0	0	0	0	0	
5	on	off	Downstream	400	16	0	0	0	0	0	
5	on	off	Upstream	16	2	1	0	0	0	0	
5	on	on	Upstream	38,140,920	16,815,720	2,818,320	1,401,000	489,240	107,400	13,440	
5	on	on	Downstream	780	36	8	0	4	0	0	
5	on	on	Upstream	39,833,040	18,459,240	3,303,960	1,672,680	614,640	125,160	21,600	
5	on	on	Downstream	644	56	12	20	8	4	0	
5	on	on	Upstream	39,437,520	17,716,680	3,015,360	1,491,240	518,760	111,000	20,040	
5	on	on	Downstream	764	28	12	8	4	0	0	
Total upstream				117,411,480	52,991,640	9,137,640	4,564,920	1,622,640	343,560	55,080	
Total downstream				2,188	120	32	28	16	4	0	
Net downstream				1,048	72	20	24	8	-4	0	
Gross Efficiency				99.998	99.9998	99.9996	99.999	99.999	99.999	99.999	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed By: DN

Data Location: DN73

Reviewed By:

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #2 Test #3

Model: S5281 S/N: 94458010

Filters: Miele SF-AH 50 Hepa Filter 10860-8

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	27	4	0	2	0	0	0
5	off	off	Downstream	16	2	0	0	0	0	0
5	off	off	Downstream	37	4	2	0	0	0	0
5	on	off	Downstream	404	12	4	0	0	4	4
5	on	off	Upstream	5	0	1	0	0	0	0
5	on	off	Downstream	404	8	4	0	0	4	0
5	on	off	Upstream	4	0	1	0	0	0	0
5	on	off	Downstream	364	16	0	4	8	8	4
5	on	off	Upstream	4	1	0	0	0	0	0
5	on	on	Upstream	36,619,080	16,054,320	2,736,480	1,342,680	491,040	104,520	18,960
5	on	on	Downstream	728	44	8	16	4	0	0
5	on	on	Upstream	37,840,320	16,555,920	2,789,400	1,355,880	464,520	104,040	16,560
5	on	on	Downstream	872	52	8	0	4	0	0
5	on	on	Upstream	36,531,120	16,044,840	2,685,600	1,319,880	458,520	99,480	18,240
5	on	on	Downstream	816	40	12	8	8	4	0
Total upstream				110,990,520	48,655,080	8,211,480	4,018,440	1,414,080	308,040	53,760
Total downstream				2,416	136	28	24	16	4	0
Net downstream				1,244	100	20	20	8	-12	-8
Gross Efficiency				99.998	99.9997	99.9997	99.999	99.999	99.999	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed By: DN

Data Location: DN73

Reviewed By:

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #3 Test #1

Model: S5281 S/N: 94457832

Filters: Miele SF-AH 50 Hepa Filter 10860-9

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	29	2	0	2	0	0	0
5	off	off	Downstream	44	6	2	0	1	0	0
5	off	off	Downstream	39	1	0	1	0	0	0
5	on	off	Downstream	848	100	28	12	16	12	4
5	on	off	Upstream	7	1	0	0	0	0	0
5	on	off	Downstream	768	56	12	20	8	4	0
5	on	off	Upstream	5	0	0	0	0	0	0
5	on	off	Downstream	828	112	20	12	8	4	0
5	on	off	Upstream	6	1	0	0	0	0	0
5	on	on	Upstream	39,330,720	16,530,600	2,568,480	1,195,560	394,080	76,680	14,040
5	on	on	Downstream	368	52	8	0	0	0	0
5	on	on	Upstream	38,220,000	15,145,920	2,214,360	966,240	316,800	58,440	8,760
5	on	on	Downstream	564	48	12	12	0	8	0
5	on	on	Upstream	39,304,080	15,828,480	2,339,280	1,037,640	327,960	65,160	11,760
5	on	on	Downstream	344	76	12	8	8	4	0
Total upstream				116,854,800	47,505,000	7,122,120	3,199,440	1,038,840	200,280	34,560
Total downstream				1,276	176	32	20	8	12	0
Net downstream				-1,168	-92	-28	-24	-24	-8	-4
Gross Efficiency				99.999	99.9996	99.9996	99.999	99.999	99.994	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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pg 7/9

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Reviewed By:

 Susan H Goldsmith, Director of Technical Services

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TEST REPORT

Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #3 Test #2

Model: S5281 S/N: 94457832

Filters: Miele SF-AH 50 Hepa Filter 10860-10

Date Samples Received: 10-July 2009

Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	35	22	6	5	12	4	5
5	off	off	Downstream	37	2	0	0	0	0	0
5	off	off	Downstream	43	1	0	1	1	0	2
5	on	off	Downstream	720	168	32	16	12	12	8
5	on	off	Upstream	5	0	1	0	1	0	0
5	on	off	Downstream	736	112	40	24	16	12	12
5	on	off	Upstream	8	1	0	0	0	0	0
5	on	off	Downstream	728	100	28	32	8	16	4
5	on	off	Upstream	3	0	1	0	0	0	0
5	on	on	Upstream	37,265,520	14,277,480	2,001,120	885,960	257,520	58,560	10,800
5	on	on	Downstream	668	40	12	12	0	0	4
5	on	on	Upstream	36,642,960	13,646,280	1,903,920	812,160	247,560	50,280	9,960
5	on	on	Downstream	652	60	12	4	8	0	4
5	on	on	Upstream	36,817,320	14,106,720	1,978,920	866,160	266,160	55,800	9,600
5	on	on	Downstream	688	56	8	4	0	4	0
Total upstream				110,725,800	42,030,480	5,883,960	2,564,280	771,240	164,640	30,360
Total downstream				2,008	156	32	20	8	4	8
Net downstream				-176	-224	-68	-52	-28	-36	-16
Gross Efficiency				99.998	99.9996	99.999	99.999	99.999	99.998	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

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Performed for: Miele
 IBR JN: 10860
 Date: 13-July 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 65 SCFM Sheath Air Flow Rate: 195 SCFM
 Conditions: Temp. 71F, Relative Humidity 46%, Barometric Pressure 734 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due Apr-2010
 Contaminant: KCI Neutralized

Description of Sample: Miele Callisto canister vacuum #3 Test #3

Model: S5281 S/N: 94457832 Filters: Miele SF-AH 50 Hepa Filter 10860-14
 Date Samples Received: 10-July 2009 Sample Source: Open Market

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	24	4	1	0	1	0	0
5	off	off	Downstream	15	2	0	0	0	0	0
5	off	off	Downstream	35	7	2	1	1	1	1
5	on	off	Downstream	656	92	32	12	8	0	0
5	on	off	Upstream	8	1	0	0	0	0	0
5	on	off	Downstream	544	52	28	8	20	8	4
5	on	off	Upstream	6	0	0	0	0	0	0
5	on	off	Downstream	744	60	32	12	16	0	0
5	on	off	Upstream	6	0	0	0	0	0	0
5	on	on	Upstream	34,945,320	12,696,240	1,755,960	737,160	237,000	49,320	9,240
5	on	on	Downstream	852	80	4	4	0	0	0
5	on	on	Upstream	35,934,240	13,293,360	1,805,760	790,440	241,200	45,480	7,080
5	on	on	Downstream	812	56	20	0	8	0	0
5	on	on	Upstream	34,131,120	12,150,720	1,575,840	667,440	204,960	41,400	7,680
5	on	on	Downstream	944	92	16	12	0	4	0
Total upstream				105,010,680	38,140,320	5,137,560	2,195,040	683,160	136,200	24,000
Total downstream				2,608	228	40	16	8	4	0
Net downstream				664	24	-52	-16	-36	-4	-4
Gross Efficiency				99.998	99.999	99.999	99.999	99.999	99.997	>99.99
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.99

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 9/9 Performed By: DN Data Location: DN73

Reviewed By: _____
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