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ISO-KINETIC SAMPLING (1)

COMPANY NAME: SUNDOWN STRAW PRODUCTS LTD

ADDRESS: STATION ROAD
TILBROOK
HUNTINGDON
CAMBS PE18 6YN

REF. NO. W8958/1

TEL No. 01480 860745

FAX No. 01480 860781

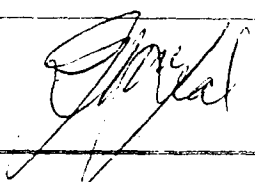
PLANT: PELLET COOLER SYSTEM

ARRESTMENT PLANT: PRIMARY H.E CYCLONE

AUTHORISATION: Mr B. Porter

TEST BY: GM TEAL & R.STAPLETON

SIGNATURE:



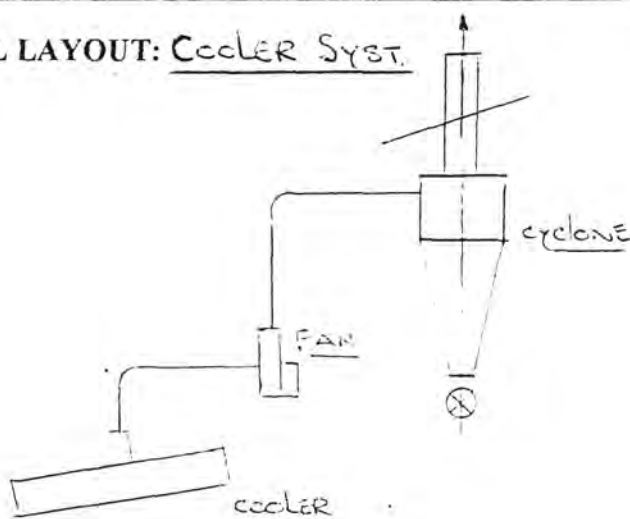
DATE: 15 DEC 2000

ISO-KINETIC SAMPLING (2)

SITE / LOCATION : SUNDOWN STRAW PRODUCTS LTD
HUNTINGDON
CAMBS PE18 6YN

DATE: 15 DEC 2000
REF. NO. W8958/1

GENERAL LAYOUT: Cooler Syst.



WAS THERE COMPLIANCE WITH BS3405:1983 YES: NO: ✓

STANDARD TEST POINTS NOT AVAILABLE – OUTLET USED. FROM PREVIOUS TESTS ON THESE PLANTS, ANTICIPATE THE ABOVE TO BE WITHIN 6%

EMISSION RESULTS

		1 st TEST	2 nd TEST	MEAN
EMPERATURE	°C	16.8	16.2	16.5
VELOCITY	m/s	15.6	14.9	15.25
WEIGHT OF PARTICULATES COLLECTED	mg	114	94.3	104.1
AIRFLOW RATE	m ³ /s	5.93	5.66	5.79
RATE OF MASS EMISSION	g/hr	1160	915	1037
EMISSION CONCENTRATION	mg/m ³	54.3	44.9	49.6

REF CONDITIONS	16.5°C	2.9 KPA	72.0%RH	0.2%	OTHER
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ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 1.1

DATE: 15th Dec 2000

TIME / DURATION: 11.31 to 11.46

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 5.93 m³/s**SAMPLE DRIED AND WEIGHED****B3**

AFTER 118.6958 gm
BEFORE 118.6564

0.0394

= 39.4 mg

B4

AFTER 73.9555 gm
BEFORE 73.8809

0.0746

= 74.6mg

TOTAL COLLECTED I N 15 MINUTES = 114mgSAMPLE VOLUME = .14 m³/m

DUST LEVEL = 114

15 x .14

=

TOTAL 54.3 mg/m³

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 1.2

DATE: 15th Dec 2000

TIME / DURATION : 11.54 to 12.09

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 5.66 m³/s**SAMPLE DRIED AND WEIGHED**

B3

AFTER 118.4710 gm
BEFORE 118.4456

0.0254

= 25.4mg

B4

AFTER 73.0680 gm
BEFORE 72.9991

0.0689

= 68.9mg

TOTAL COLLECTED I N 15. MINUTES = 94.3 mg

SAMPLE VOLUME = .14m³/m

DUST LEVEL = 94.3

15 x .14

=

TOTAL 44.9 mg/m³



ISO-KINETIC SAMPLING (1)

COMPANY NAME: SUNDOWN STRAW PRODUCTS LTD

ADDRESS: STATION ROAD
TILBROOK
HUNTINGDON
CAMBS PE18 6YN

REF. NO. W8958/5

TEL No. 01480 860745

FAX No. 01480 860781

PLANT: STRAW DE-DUSTING PLANT

ARRESTMENT PLANT: PROVENAIR RJ FILTER

AUTHORISATION: Mr B. Porter

TEST BY: GM TEAL & R. STAPLETON

SIGNATURE:

DATE: 15 DEC 2000

ISO-KINETIC SAMPLING (2)

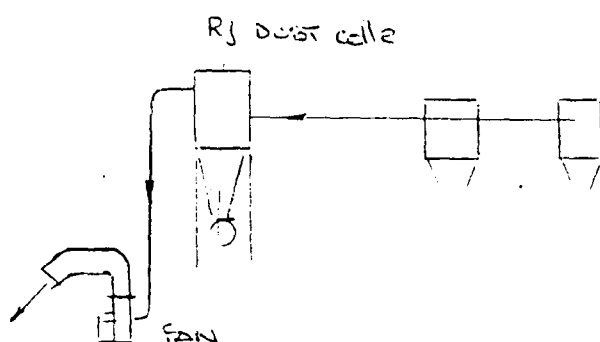
SITE / LOCATION : SUNDOWN STRAW PRODUCTS LTD
HUNTINGDON
CAMBS PE18 6YN

DATE: 15 DEC 2000
REF. NO. W8958/5

GENERAL LAYOUT: DE - DUSTERS

WAS THERE COMPLIANCE WITH BS3405:1983 YES: NO: ☒

STANDARD TEST POINTS NOT AVAILABLE - OUTLET USED FROM PREVIOUS TESTS ON THESE PLANTS, ANTICIPATE THE ABOVE TO BE WITHIN 12%



EMISSION RESULTS		1 st TEST	2 nd TEST	MEAN
EMPERATURE	°C	15	15	15
VELOCITY	m/s	4.8	5.7	5.3
WEIGHT OF PARTICULATES COLLECTED	mg	101.6	68.9	85.2
AIRFLOW RATE	m ³ /s	3.3	3.9	3.6
RATE OF MASS EMISSION	g/hr	575	460	517
EMISSION CONCENTRATION	mg/m ³	48.4	32.8	40.6
REF CONDITIONS	15°C	2.9 KPA	34%RH	0 ² % OTHER

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 5.1 De-dusters

DATE: 15th Dec 2000

TIME / DURATION : 13.05 to 13.20

PRODUCT: Throughput unknown

AIRFLOW: 3.3m³/s

SAMPLE DRIED AND WEIGHED

B11 FILTER

AFTER 118.7215 gm
BEFORE 118.6968

.0247

= 24.7mg

B11

AFTER 74.0677 gm
BEFORE 73.9908

.0769

= 76.9mg

TOTAL COLLECTED IN 15. MINUTES = 101.6

SAMPLE VOLUME = 0.14m³/m

DUST LEVEL = 101.6

15 x .14

TOTAL 48.4mg/m³

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 5.2 De-dusters

DATE: 15th Dec 2000

TIME / DURATION : 13.22 to 13.37

PRODUCT: Throughput unknown

AIRFLOW: 3.9m³/s

SAMPLE DRIED AND WEIGHED

B12 FILTER

AFTER 118.9153 gm
BEFORE 118.9010

.0143

= 14.3mg

B12

AFTER 73.8254 gm
BEFORE 73.7708

.0546

= 54.6mg

TOTAL COLLECTED I N 15. MINUTES = 68.9mg

SAMPLE VOLUME = 0.14m³/m

DUST LEVEL = 68.9

15 x .14

TOTAL 32.8mg/m³



ISO-KINETIC SAMPLING (1)

COMPANY NAME: SUNDOWN STRAW PRODUCTS LTD

ADDRESS: STATION ROAD
TILBROOK
HUNTINGDON
CAMBS PE18 6YN

REF. NO. W8958/4

TEL No. 01480 860745

FAX No. 01480 860781

PLANT: STRAW PACKING PLANT

ARRESTMENT PLANT: DEI REVERSE JET DUST COLLECTOR

AUTHORISATION: Mr B. Porter

TEST BY: GM TEAL & R STAPLETON

SIGNATURE:

DATE: 15 DEC 2000

ISO-KINETIC SAMPLING (2)

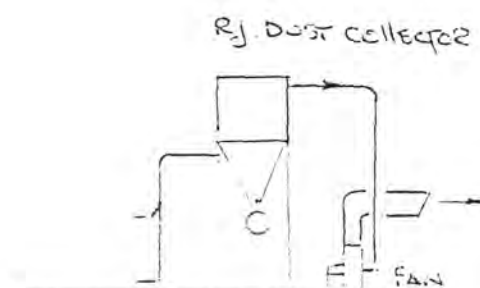
SITE / LOCATION : SUNDOWN STRAW PRODUCTS LTD
HUNTINGDON
CAMBS PE18 6YN

DATE: 15 DEC 2000
REF. NO. W8958/4

GENERAL LAYOUT: STRAW PACKING

WAS THERE COMPLIANCE WITH BS3405:1983 YES: NO: ✓

STANDARD TEST POINTS NOT AVAILABLE – OUTLET USED FROM PREVIOUS TESTS ON THESE PLANTS, ANTICIPATE THE ABOVE TO BE WITHIN 12%



EMISSION RESULTS		1 st TEST	2 nd TEST	MEAN
TEMPERATURE	°C	11.2	11.4	11.3
VELOCITY	m/s	18.8	20.8	19.8
WEIGHT OF PARTICULATES COLLECTED	mg	34.8	18.9	26.8
AIRFLOW RATE	m ³ /s	2.0	2.2	2.1
RATE OF MASS EMISSION	g/hr	119.5	71.3	95.4
EMISSION CONCENTRATION	mg/m ³	16.6	9.0	12.8
REF CONDITIONS	11.3°C	3.2 KPA	40%RH	0 ² % OTHER

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 4.1 Straw Packing

DATE: 15th Dec 2000

TIME / DURATION : 12.30 to 12.45

PRODUCT: Throughput unknown

AIRFLOW: 2.0m³/s**SAMPLE DRIED AND WEIGHED****B8 FILTER**

AFTER 118.4131 gm
BEFORE 118.4044

0.0087

= 8.7mg

B8

AFTER 74.87.43 gm
BEFORE 73.8482

0.0261

= 26.1mg

TOTAL COLLECTED I N 15. MINUTES = 34.8

SAMPLE VOLUME = 0.14m³/m

DUST LEVEL = 34.8

15 x .14

=

TOTAL 16.6mg/m³

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 4.2 Straw Packing

DATE: 15th Dec 2000

TIME / DURATION : 12.48 TO 13.03

PRODUCT: Throughput unknown

AIRFLOW: 2.2m³/s**SAMPLE DRIED AND WEIGHED****B9 FILTER**

AFTER 118.4941 gm
BEFORE 118.4891

0.0050

= 5.0mg

B9

AFTER 73.8619 gm
BEFORE 73.8480

0.0139

= 13.9mg

TOTAL COLLECTED I N 15. MINUTES = 18.9

SAMPLE VOLUME = 0.14m³/m

DUST LEVEL = 18.9

15 x .14

=

TOTAL 9.0mg/m³



ISO-KINETIC SAMPLING (1)

COMPANY NAME: SUNDOWN STRAW PRODUCTS LTD

ADDRESS: STATION ROAD
TILBROOK
HUNTINGDON
CAMBS PE18 6YN

REF. NO. W8958/3

TEL No. 01480 860745

FAX No. 01480 860781

PLANT: PNEUMATIC TUB TRANSFER SYSTEM

ARRESTMENT PLANT: PRIMARY H.E CYCLONE

AUTHORISATION: Mr B.Porter

TEST BY: GM TEAL & R.STAPLETON

SIGNATURE:

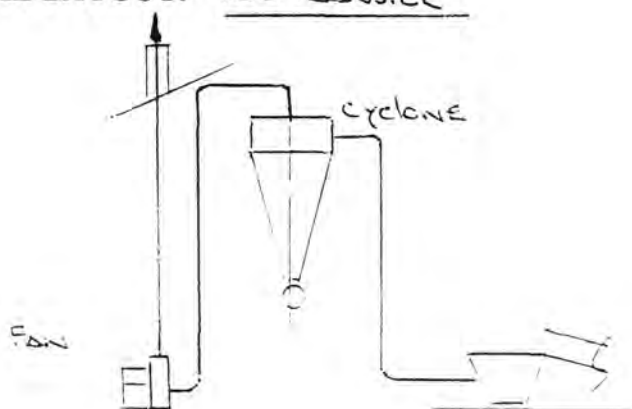
DATE: 15 DEC 2000

ISO-KINETIC SAMPLING (2)

SITE / LOCATION : SUNDOWN STRAW PRODUCTS LTD
HUNTINGDON
CAMBS PE18 6YN

DATE: 15 DEC 2000
REF. NO. W8958/3

GENERAL LAYOUT: TUB TRANSFER



WAS THERE COMPLIANCE WITH BS3405:1983 YES: NO:

STANDARD TEST POINTS NOT AVAILABLE – OUTLET USED FROM PREVIOUS TESTS ON THESE PLANTS, ANTICIPATE THE ABOVE TO BE WITHIN 6%

EMISSION RESULTS		1 st TEST	2 nd TEST	MEAN
TEMPERATURE	°C	14.6	14.6	14.6
VELOCITY	m/s	17.5	18.1	17.8
WEIGHT OF PARTICULATES COLLECTED	mg	520.8	592.2	556.5
AIRFLOW RATE	m ³ /s	1.68	1.74	1.71
RATE OF MASS EMISSION	g/hr	1500	1766	1633
EMISSION CONCENTRATION	mg/m ³	248	282	265
REF CONDITIONS	14.6°C	3.2 KPA	28%RH	0.2% OTHER

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 3.1 TUB TRANSFER

DATE: 15th Dec 2000

TIME / DURATION : 9.52 TO 10.07

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 1.68

SAMPLE DRIED AND WEIGHED

B5

AFTER 118.9678 gm
BEFORE 118.9189

.0489

= 48.9mg

B5

AFTER 74.1128 gm
BEFORE 73.6409

.4719

= 471.9mg

TOTAL COLLECTED IN 15. MINUTES = 520.8

SAMPLE VOLUME = .14m³/m

DUST LEVEL = 520.8

15 x .14

TOTAL 248 mg/m³

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 3.2 TUB TRANSFER

DATE: 15th Dec 2000

TIME / DURATION : 10.10 to 10.25

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 1.74

SAMPLE DRIED AND WEIGHED

B7 FILTER

AFTER 118.8329 gm
BEFORE 118.7788

.0541

= 54.1mg

B7

AFTER 74.1545 gm
BEFORE 73.6164

.5381

= 538.1mg

TOTAL COLLECTED IN 15. MINUTES = 592.2

SAMPLE VOLUME = $0.14\text{m}^3/\text{m}$

DUST LEVEL = 592.2

15 x .14

=

TOTAL 282mg/m³



ISO-KINETIC SAMPLING (1)

COMPANY NAME: SUNDOWN STRAW PRODUCTS LTD

ADDRESS: STATION ROAD
TILBROOK
HUNTINGDON
CAMBS PE18 6YN

REF. NO. W8958/2

TEL No. 01480 860745

FAX No. 01480 860781

PLANT: PNEUMATIC GRINDER TRANSFER SYSTEM

ARRESTMENT PLANT: PRIMARY AND SECONDARY CYCLONES

AUTHORISATION: Mr B. Porter

TEST BY: GM TEAL & R. STAPLETON

SIGNATURE:

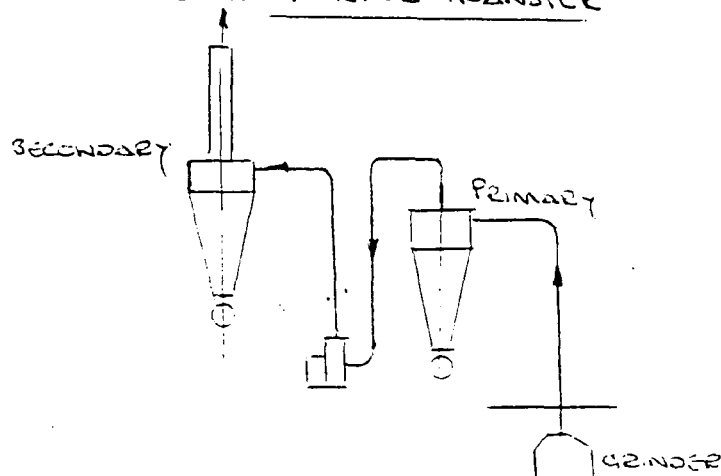
DATE: 15 DEC 2000

ISO-KINETIC SAMPLING (2)

SITE / LOCATION : SUNDOWN STRAW PRODUCTS LTD
HUNTINGDON
CAMBS PE18 6YN

DATE: 15 DEC 2000
REF. NO. W8958/2

GENERAL LAYOUT: GRINDER TRANSFER



WAS THERE COMPLIANCE WITH BS3405:1983 YES: NO: ✓

STANDARD TEST POINTS NOT AVAILABLE - OUTLET USED FROM PREVIOUS TESTS ON THESE PLANTS, ANTICIPATE THE ABOVE TO BE WITHIN 6%

EMISSION RESULTS		1 st TEST	2 nd TEST	MEAN
TEMPERATURE	°C	21.8	22.3	22.05
VELOCITY	m/s	21.9	20.7	21.3
WEIGHT OF PARTICULATES COLLECTED	mg	672	617.4	644.7
AIRFLOW RATE	m ³ /s	2.1	1.99	2.0
RATE OF MASS EMISSION	g/hr	2419	2106	2210
EMISSION CONCENTRATION	mg/m ³	320	294	307
REF CONDITIONS	22.05°C	3.2 KPA	44.9%RH	0 ² % OTHER

REF NO. W8958/2

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PRODUCTS LTD

TEST NO. 2.1

DATE: 15 DEC 2000

TIME / DURATION : 11.07 to 11.22

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 2.1 m³/s

SAMPLE DRIED AND WEIGHED

B3 FILTER

AFTER 118.9382 gm
BEFORE 118.8608

.0774

= 77.4 mg

B4 CYCLONE

AFTER 74.1645 gm
BEFORE 73.5699

.5946

= 594.6mg

TOTAL COLLECTED I N 15 MINUTES = 672 mg

SAMPLE VOLUME = 0.14 m³/m

DUST LEVEL = 672

15 x .14

TOTAL 320 mg/m³

ISO-KINETIC SAMPLING (3)

COMPANY / SITE: SUNDOWN STRAW PTODUCTS LTD

TEST NO. 2.2 Grinder Transfer

DATE: 15 DEC 2000

TIME / DURATION : 11.19 TO 11.34

PRODUCT: 3 TONNE / HOUR

AIRFLOW: 1.99m³/s

SAMPLE DRIED AND WEIGHED

B3 FILTER

AFTER 118.6912 gm
BEFORE 118.6164

.0748

= 74.8mg

B4

AFTER 74.4232 gm
BEFORE 73.8806

.5426

= 542.6mg

TOTAL COLLECTED IN 15 MINUTES = 617.4mg

SAMPLE VOLUME = 0.14m³/m

DUST LEVEL = 617.4

15 x .14

TOTAL 294 mg/m³