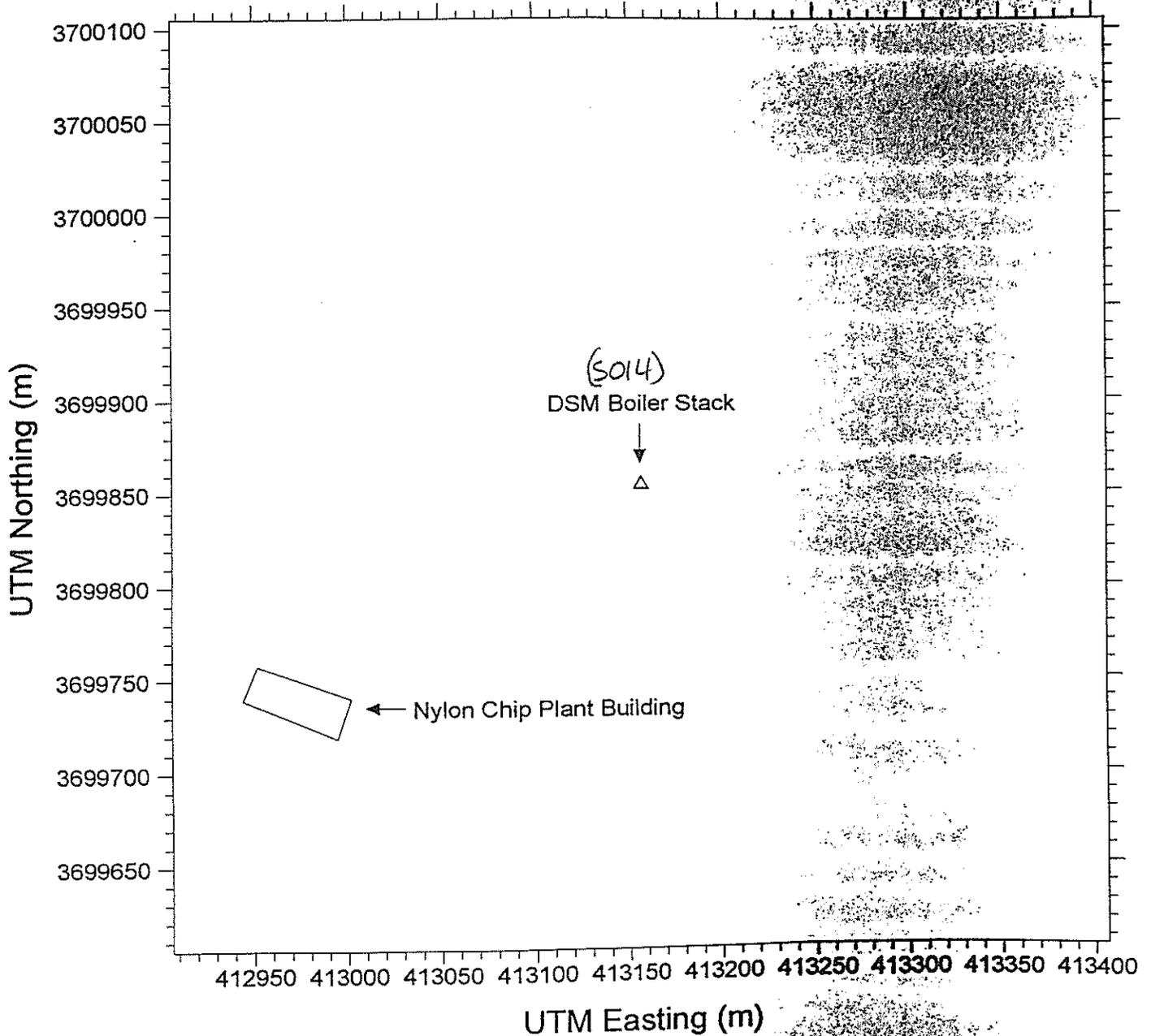


DSM Chemicals North America, Inc.  
Ambient Air Quality Impact Analysis



**SECOR**  
International Incorporated

Simplified Plot Plan

Figure  
A-1

Job #: 10869-001-01 00

Drawn by: PMc

Date: 03/24/98

BPIP (Dated: 95086)

DATE : 3/10/98

TIME : 15:46: 9

DSM Corporation: Single stack and Chip Plant Building

=====

BPIP PROCESSING INFORMATION:

=====

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in METERS will be converted to meters using  
a conversion factor of 1.0000. Output will be in meters.

The UTM variable is set to UTM. The input is assumed to be in  
UTM coordinates. BPIP will move the UTM origin to the first pair of  
UTM coordinates read. The UTM coordinates of the new origin will  
be subtracted from all the other UTM coordinates entered to form  
this new local coordinate system.

Plant north is set to 0.00 degrees with respect to True North.

DSM Corporation: Single stack and Chip Plant Building

(S014)

PRELIMINARY\* GEP STACK HEIGHT RESULTS TABLE  
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
(S014) STACK	67.05	0.00	115.83	115.83

\* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP  
Technical Support Document. Determinant 3 may be investigated for  
additional stack height credit. Final values result after  
Determinant 3 has been taken into consideration.

\*\* Results were derived from Equation 1 on page 6 of GEP Technical  
Support Document. Values have been adjusted for any stack-building  
base elevation differences.

Note: Criteria for determining stack heights for modeling emission  
limitations for a source can be found in Table 3.1 of the  
GEP Technical Support Document.

BPIP (Dated: 95086)

DATE : 3/10/98  
TIME : 15:46: 9

DSM Corporation: Single stack and Chip Plant Building

BPIP output is in meters

SO BUILDHGT STACK	0.00	0.00	0.00	0.00	46.33	46.33
SO BUILDHGT STACK	46.33	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID STACK	0.00	0.00	0.00	0.00	57.25	55.04
SO BUILDWID STACK	51.16	0.00	0.00	0.00	0.00	0.00
SO BUILDWID STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID STACK	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID STACK	0.00	0.00	0.00	0.00	0.00	0.00

BPIP (Dated: 95086)

DATE : 3/10/98

TIME : 15:46: 9

DSM Corporation: Single stack and Chip Plant Building

=====  
BPIP PROCESSING INFORMATION:  
=====

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in METERS will be converted to meters using  
a conversion factor of 1.0000. Output will be in meters.

The UTM variable is set to UTM. The input is assumed to be in  
UTM coordinates. BPIP will move the UTM origin to the first pair of  
UTM coordinates read. The UTM coordinates of the new origin will  
be subtracted from all the other UTM coordinates entered to form  
this new local coordinate system.

The new local coordinates will be displayed in parentheses just below  
the UTM coordinates they represent.

Plant north is set to 0.00 degrees with respect to True North.

=====  
INPUT SUMMARY:  
=====

Number of buildings to be processed : 1

Chip\_bld has 1 tier(s) with a base elevation of 0.00 METERS

BUILDING NAME	TIER NUMBER	BLDG-TIER NUMBER	TIER HEIGHT	NO. OF CORNERS	CORNER X	COORDINATES Y
Chip_bld	1	1	46.33	4	412944.30	3699739.20 meters
				(	0.00	0.00) meters
				(	412951.80	3699757.70 meters
				(	7.50	18.50) meters
				(	413002.00	3699740.00 meters
				(	57.70	0.80) meters
				(	412994.50	3699718.80 meters
				(	50.20	-20.40) meters

Number of stacks to be processed : 1

STACK NAME	STACK		STACK COORDINATES	
	BASE	HEIGHT	X	Y
STACK	0.00	67.05 METERS	413157.00	3699855.00 meters
			( 212.70	115.80) meters

No stacks have been detected as being atop any structures.

Overall GEP Summary Table  
(Units: meters)

(5014)

StkNo: 1	Stk Name: STACK	Stk Ht: 67.05	Prelim. GEP	Stk.Ht: 115.83
	GEP: BH: 46.33	PBW: 53.49	*Eqnl Ht:	115.83
	*adjusted for a Stack-Building elevation difference of			0.00
No. of Tiers affecting Stk:	1	Direction occurred:	64.50	
Bldg-Tier nos. contributing to GEP:	1			