WORK ORDER NO: 02425-001

SIEMENS WESTINGHOUSE POWER CORPORATION
Dick Pacific Construction Co., Ltd.
BLYTHE ENERGY PROJECT
BLYTHE, CALIFORNIA

PARCEL B
STORM DRAINAGE CALCULATIONS

CALCULATION NO: 02425-001-06-007

BURNS & ROE ENTERPRISES, INC.
800 KINDERKAMACK ROAD
ORADELL, NEW JERSEY 07649

JULY, 2002

JOHN V. LANTRY
REGISTERED PROFESSIONAL ENGINEER
JOHN V. LANTRY
No. 62391
EXPIRES
SEPT. 30, 2005
CIVIL
STATE OF CALIFORNIA
P. E. NO. 62391

REVISED FOR BEP II 3-1-03 RC

BURNS AND ROE ENTERPRISES, INC.

W.O. No: 2425-001 Calc. 2425-01-06-00[illegible] Sheet No: 12 Cont'd on 65
Prepared By: fho Date: 1/14/02 Checked By: JR Date: 1/16/02
Title: Wastewater Pond Area Sitework

Worksheet 2: Runoff curve number and runoff

Project	By	Date
SWPC BLYTHE ENERGY PROJECT	fho	1/16/02
Location	**Checked**	**Date**
BLYTHE, CALIFORNIA		

Check one: ☐ Present ☑ Developed

1. Runoff curve number

Soil name and hydrologic group (appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ ** Table 2-2	Figure 2-3	Figure 2-4	Area ☑ acres ☐ mi² ☐ %	Product of CN x area
TRIBUTARY AREA A1, HSG=A	WESTERN DESERT AREA NATURAL DESERT LANDSCAPING	63			1120	70560
BEP SITE A2	URBAN DISTRICT - INDUSTRIAL HSG=A AVG IMPERVIOUS = 72%	81			73.6	5962
BEP EXPANSION AREA A3	WESTERN DESERT AREA NATURAL DESERT LANDSCAPING	~~63~~ → 81			60	~~3780~~ 4860
N-W TRIBUTARY AREA A4	WESTERN DESERT AREA NATURAL DESERT LANDSCAPING	63			14	882
ROAD TRIBUTARY AREA A5	STREETS & ROADS	98			5	490

1/ Use only one CN source per line

Totals → 1273 ~~81674~~ 82754

CN (weighted) = total product / total area = ~~81674~~ 82754 / 1273 = ~~64.2~~ 65

Use CN → 65

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr	10	100	N/A
Rainfall, P (24-hour)	in	2.2	3.79	N/A
Runoff, Q	in	0.19	0.91	N/A

(Use P and CN with table 2-1, figure 2-1, or equations 2-3 and 2-4)

(SEE SH

NOTE: FOR AREA CALCULATIONS SEE SHEET 12 OF THIS CALCULATION.

** HSG TYPE A BASED ON SOIL BORING INFORMATION

Form C015104G4 (1/1/94)