

LIMITED SUPPLEMENTAL ASBESTOS SURVEY REPORT

At

**Dynegy Power Plant
1290 Embarcadero Road
Morro Bay, CA 93442-2042**

Submitted to

**Mr. Tim Niedzwiecki, President
Environmental Remediation Services, Inc.
311 Rotterdam Industrial Park
Building 3 Bay 1
Schenectady, NY 12306**

Inspection Dates: June 23-24, 2014
Report Date: July 8, 2014



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Project No: 215602

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EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) contracted with the Environmental Remediation Services, Inc. (ERSI) to conduct a limited, supplemental asbestos survey of selective mechanical equipment at the Dynege Power Plant located at 1290 Embarcadero Road, Morro Bay, California (the “Site”). Please note that TRC’s survey activities were limited to thermal systems insulations associated with Unit 1 and Unit 2 feed water heaters numbers 1 & 2, and Units 1, 2, 3, 4, feed water heaters numbers 5, 6, & 7. This report contains the findings from the survey conducted by TRC on June 23-24, 2014, and was prepared for the Client in accordance with their request for environmental services to perform a supplemental asbestos survey prior to planned site work.

The asbestos and lead-based paint survey/inspection and reporting was performed by Doug Coburn, a State of California Certified Asbestos Consultant (CAC #92-0223).

ASBESTOS FINDINGS

Inspection, sampling, and analytical procedures for asbestos-containing building materials (ACBMs) were performed in general accordance and conformance with the Environmental Protection Agency’s (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) - EPA 40 Code of Federal Regulations (CFR) 61 Subpart M, the EPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, San Luis Obispo County Air Pollution Control District and the Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 requirements.

The following ACM was identified during this supplemental survey:

ID	Material	Location	Percentage/ Type	Approx. Quantity*
O	5” OD Pipe Insulation, White, Chalky w/ Light Blue Canvas Jacket	Unit 1, FW Heaters Nos. 1 & 2; Unit 2 FW Heaters Nos. 1 & 2, on Level 3	30-60% Chry; 5-20% Am; 10% Croc	40 LF
S	Tank Patch Insulation White, Chalky w/ Black Asphalt Jacket Painted Gray	Unit 1, FW Htr No. 2, Level 3	40% Chrysotile	60 LF
U	White Chalky Pipe and Insulation with Gray Canvas Jacket	Unit 1, FW Htr No. 2, Riser Pipe on South Side, Levels 2 and 3	20-60% Chry; 20-40% Am; 3% Crocidolite	150 SF
BB	16” Valve Fitting Insulation, Light Grey	Between Levels 1 & 2, at Bottom of Platform for Unit 1, FW Htr No. 1, off SW Side	40% Chrysotile 40% Amosite	20 LF
GG	Pump Box Insulation, Lt Grey Chalky and Fibrous w/ Canvas Jacket	Unit 1, FW Htr No. 2, East Side	10-30% Chrysotile	4 SF
HH	White, Chalky Pipe & Elbow Insulation w/ Canvas Jacket	16” OD Pipes at base of Unit 2, FW Htrs Nos. 1 & 2	60% Chry; 20% Am; 5% Croc	20 LF
II	16” OD White, Chalky Pipe Insulation w/ Canvas Jacket & Goop	Base of Unit 2, FW Htr No. 2, Pipe Line SW of Tank at Base and Valves	40% Amosite	16 LF

ID	Material	Location	Percentage/ Type	Approx. Quantity*
II	6" and 14" OD White, Chalky Pipe Insulation w/ Canvas Jacket (Patches)	At Unit 2, FW Htr No. 2, Level 2 on North and West Sides of Vessel	40% Chrysotile	6" – 8 LF; 14" – 8 LF
LL	Tank End-Cap Insulation, Off White, Chalky w/ Blue Painted Asphalt Goop Jacket	Unit 2, FW Htr No. 2, Top Lid	10% Chrysotile	18 SF
NN	14" Pipe Insulation Patch	Level 2, Unit 2, FW Htr No. 2, Piping on NW side of at Tank	Considered to be Same as Material II	4 LF
OO	12" OD White, Chalky Pipe Insulation w/ Canvas Jacket	Piping Located North of Unit 1, FW Htr 5,6,7	10-40% Chry; 10-20% Am;	8 LF
PP	White, Chalky Tank Insulation w/ Canvas Jacket	Unit 1, FW Htr 5,6,7 on East end of Tank	10-80% Chry; 10-30% Am;	36 SF
QQ	White, Chalky Tank Insulation w/ Canvas Jacket	Unit 2, FW Htr 5,6,7 on West end of Tank	10-80% Chry; 10-30% Am; 3% Croc	36 SF
RR	12" OD White, Chalky Pipe Insulation w/ Canvas Jacket	Piping Located North of Unit 2, FW Htr 5,6,7, West end of Tank	10% Chry; 20-60% Am;	8 LF
SS	24" OD White, Chalky Pipe Insulation w/ Canvas Jacket (Extraction)	Piping Located Above Unit 2, FW Htr 5,6,7, West end of Tank	10% Chry; 20-40% Am;	8 LF
TT	24" OD White, Chalky Pipe Insulation w/ Canvas Jacket (Extraction)	Piping Located Above Unit 1, FW Htr 5,6,7, East end of Tank	10-60% Chry; 20-60% Am;	8 LF
VV	16", 12", 10", 8" Pipe Insulation, White, Chalky w/ Canvas Jacket	Pipes Connecting to Unit 2, FW Htr 5,6,7 on East end of Tank	5-80% Chry; 5-40% Am;	24 LF
VV	12" OD Pipe Insulation, White, Chalky w/ Canvas Jacket	Pipes at West End of Unit 3, FW Htr Tank No. 7	5-20% Chry; 40% Am;	16 LF
WW	Tank Insulation, White, Chalky w/ Canvas Jacket	Unit 2, FW Htr 5,6,7, East End of Tank	60-80% Chry; 10-20% Am; 10% Croc	36 SF
XX	Tank Insulation, White, Chalky w/ Canvas Jacket	Unit 3, FW Htr No. 7, West End of Tank	60-80% Chry; 10-20% Am;	36 SF
AAA	6" & 12" Pipe Insulation, White, Chalky w/ Smooth Aluminum Jacket	Piping at West End of Unit 3, FW Htr No. 5	30% Amosite	12 LF
CCC	18" OD Pipe Elbow Insulation, White, Chalky w/ Canvas Jacket	Unit 3, West End of FW Htr No. 5, Between Tank & Catwalk	20% Amosite	8 LF
EEE	Tank Insulation, Off White, Chalky w/ Canvas Jacket	Unit 4, FW Htr No. 7 at East End of Tank	60% Chry; 20% Amosite;	36 SF

ID	Material	Location	Percentage/ Type	Approx. Quantity*
FFF	12" Pipe Insulation, Off White, Chalky w/ Canvas Jacket & Smooth Aluminum Jacket	North and Bottom Sides of Unit 4, FW Htr Tank No. 7 at East End	5-10% Chry; 30-60% Am;	12 LF
GGG	12" & 16" Off White Pipe Fitting Insulation w/ Canvas Jacket	Piping Connected to Unit 4, FW Htr Tanks 5, 6, 7 on East End of Tank	5-40% Chry; 20-40% Am;	30 LF
III	Off White Tank Insulation w/ Canvas Jacket Gray	Small Tank Above Unit 4, FW Htr Tank No. 7 at East End Unit, Applied to the Western Segment of the Tank	10-80% Chry; 10-20% Am;	20 SF
LLL	6" OD Pipe Insulation, Off White, Chalky w/ Smooth Aluminum Jacket	East End of Unit 4 Condenser, 4' East of Condenser, approx. 7' High	20% Amosite	30 LF
MM M	8" OD Pipe Insulation w/ Aluminum Jacket	East End of Unit 4 Condenser, 4' East of Condenser, approx. 9' High	Labeled as ACM	30 LF

*Quantities are approximate estimating relative amount of abatement necessary to clear the area for the intended scope of equipment removal.

SUPPLEMENTAL ASBESTOS SURVEY

INTRODUCTION

TRC conducted a limited, supplemental asbestos survey, inspection, assessment and quantification of asbestos-containing materials on selective insulated mechanical equipment at Dynege Power Plant located at 1290 Embarcadero Road, Morro Bay, California. The survey was performed to identify asbestos containing building materials prior to a planned site work which could disturb suspect ACM on the equipment.

The supplemental asbestos survey was conducted on June 23-24, 2014, performed by Doug Coburn, a State of California Certified Asbestos Consultant (CAC) #92-0223. This survey is intended to supplement a previous asbestos survey provided by TRC dated March 11, 2014. Together, these reports are intended to characterize the disposition of suspected asbestos containing insulations associated with selective equipment to be removed at the site.

BACKGROUND

Asbestos Containing Materials

The California Occupational Safety and Health Administration (Cal-OSHA) and the Environmental Protection Agency (EPA) define an asbestos-containing material (ACM or also called asbestos containing building materials ACBM) as any material containing more than one percent (>1.0%) asbestos by weight. Additionally, Cal/OSHA includes the term asbestos-containing construction material (ACCM), which is any manufactured construction material containing greater than one tenth of one percent (>0.1%) asbestos by weight. Asbestos containing materials are designated by the EPA as:

Friable asbestos - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM)

Category I Non-friable - includes resilient floor coverings, asphalt roofing products, gaskets and packing.

Category II Non-friable - any non-friable ACM that is not in Category I (i.e. Asbestos-cement (Transite) siding or roofing material).

Asbestos Sampling and Analytical Procedures

Representative bulk samples of suspect asbestos-containing materials were randomly collected from the identified homogenous material applications on the designated mechanical equipment. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same appearance, age, color and texture, etc.),
- Application (sprayed or trowel-on, assembly into a system, etc.),
- Material function (e.g. thermal insulation, floor tile, wallboard system, etc.).

To simplify tracking of each material, each homogenous material was assigned unique identification letters. The bulk samples were collected, labeled, logged on a field sampling form. The inspector's bulk sampling logs may be referenced in Appendix A.

The samples were shipped to a certified analytical laboratory under proper chain-of-custody (COC) documentation, and condition, and approximate material quantity assessments were performed by the accredited inspector.

Laboratory services were provided by TRC Industrial Hygiene Laboratory. TRC Industrial Hygiene Laboratory is a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (NVLAP code #101424-0). The Bulk Asbestos Analysis Report log number is referenced as 0044164, samples analyzed on June 27, 2014.

Bulk samples were analyzed by polarized light microscopy (PLM) utilizing the EPA's Test Methods: Methods for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Analysis by PLM was performed by visual observation of the bulk sample and slides prepared of the bulk sample for microscopic examination and identification. The samples were analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimates the relative amounts of each constituent by determining the estimated area of the asbestos compared with the area estimate of the total sample.

INTERPRETATION OF ASBESTOS RESULTS

Federal OSHA, the California Department of Occupational Safety and Health (Cal/DOSH), and NESHAP define an asbestos-containing material (ACM) as any material containing more than one percent (>1.0%) asbestos. Both agencies have certain classifications for ACM types as well as requirements that apply when ACM is removed and disposed. Additionally, Cal/DOSH includes the term, asbestos-containing construction material (ACCM); which is any manufactured construction material containing >0.1% asbestos. The ACCM designation has been established by Cal/DOSH as a criterion for the registration and certification of contractors and consultants respectively, who provide services that involve such materials.

The limit of reliable detection for asbestos using the PLM analytical method is one percent (1.0%) by volume. When less than one percent (<1.0%) appears in this report, it should be interpreted as meaning that asbestos was present in the sample, but the exact percentage is unknown. Any sample indicating a concentration of <1.0% can be subjected to the more stringent Point Count Method of analysis to more precisely determine the actual asbestos content (down to one tenth of one percent). Cal/DOSH states that employers performing construction activities on materials containing greater than 0.1% asbestos, must comply with applicable provisions of Title 8, Section 1529 of CCR. Therefore, those materials which fall outside the NESHAP definition of an ACM is regulated by Cal/DOSH, and should be handled as ACCM by a California asbestos abatement contractor and personnel trained to handle asbestos materials.

Per United States EPA NESHAP regulations, "friable" materials with PLM results of less than ten percent (<10%) asbestos must be assumed ACM unless it is further analyzed using the EPA point count method to more precisely determine the actual asbestos content. If this material is found to contain less than 1% asbestos by point counting, then it may be disposed of as non-hazardous waste. However, if asbestos was detected above 0.1% concentration following the point count analysis, Cal/OSHA rules would still apply, and the contractor performing removal or demolition must comply with the worker protection, training, and medical surveillance portions of the asbestos standard.

The term “friable asbestos-containing material” means any asbestos-containing material applied on ceilings, walls, structural members, piping, duct work, or any other part of a building which when dry may be crumbled, pulverized, or reduced to powder by hand pressure. NESHAPS and the San Luis Obispo County Air Pollution Control District, considers ACM to be friable, non-friable asbestos-containing material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

ASBESTOS FINDINGS

Asbestos Containing Materials (>1%)

Asbestos was detected in concentrations exceeding one percent in the following materials sampled during the supplemental asbestos survey. Estimated quantities are provided as an approximate guide to the Client. The material quantities listed in the table are approximations for necessary abatement to conduct the demolition work and TRC is not responsible for the accuracy of the quantities and measurements provided.

ID	Material	Location	Percentage/ Type	Approx. Quantity*
O	5” OD Pipe Insulation, White, Chalky w/ Light Blue Canvas Jacket	Unit 1, FW Heaters Nos. 1 & 2; Unit 2 FW Heaters Nos. 1 & 2, on Level 3	30-60% Chry; 5-20% Am; 10% Croc	40 LF
S	Tank Patch Insulation White, Chalky w/ Black Asphalt Jacket Painted Gray	Unit 1, FW Htr No. 2, Level 3	40% Chrysotile	60 LF
U	White Chalky Pipe and Insulation with Gray Canvas Jacket	Unit 1, FW Htr No. 2, Riser Pipe on South Side, Levels 2 and 3	20-60% Chry; 20-40% Am; 3% Crocidolite	150 SF
BB	16” Valve Fitting Insulation, Light Grey	Between Levels 1 & 2, at Bottom of Platform for Unit 1, FW Htr No. 1, off SW Side	40% Chrysotile 40% Amosite	20 LF
GG	Pump Box Insulation, Lt Grey Chalky and Fibrous w/ Canvas Jacket	Unit 1, FW Htr No. 2, East Side	10-30% Chrysotile	4 SF
HH	White, Chalky Pipe & Elbow Insulation w/ Canvas Jacket	16” OD Pipes at base of Unit 2, FW Htrs Nos. 1 & 2	60% Chry; 20% Am; 5% Croc	20 LF
II	16” OD White, Chalky Pipe Insulation w/ Canvas Jacket & Goop	Base of Unit 2, FW Htr No. 2, Pipe Line SW of Tank at Base and Valves	40% Amosite	16 LF
II	6” and 14” OD White, Chalky Pipe Insulation w/ Canvas Jacket (Patches)	At Unit 2, FW Htr No. 2, Level 2 on North and West Sides of Vessel	40% Chrysotile	6” – 8 LF; 14” – 8 LF
LL	Tank End-Cap Insulation, Off White, Chalky w/ Blue Painted Asphalt Goop Jacket	Unit 2, FW Htr No. 2, Top Lid of the Tank	10% Chrysotile	18 SF

ID	Material	Location	Percentage/ Type	Approx. Quantity*
NN	14" Pipe Insulation Patch	Level 2, Unit 2, FW Htr No. 2, Piping on NW side of at Tank	Considered to be Same as Material II	4 LF
OO	12" OD White, Chalky Pipe Insulation w/ Canvas Jacket	Piping Located North of Unit 1, FW Htr 5,6,7	10-40% Chry; 10-20% Am;	8 LF
PP	White, Chalky Tank Insulation w/ Canvas Jacket	Unit 1, FW Htr 5,6,7 on East end of Tank	10-80% Chry; 10-30% Am;	36 SF
QQ	White, Chalky Tank Insulation w/ Canvas Jacket	Unit 2, FW Htr 5,6,7 on West end of Tank	10-80% Chry; 10-30% Am; 3% Croc	36 SF
RR	12" OD White, Chalky Pipe Insulation w/ Canvas Jacket	Piping Located North of Unit 2, FW Htr 5,6,7, West end of Tank	10% Chry; 20-60% Am;	8 LF
SS	24" OD White, Chalky Pipe Insulation w/ Canvas Jacket (Extraction)	Piping Located Above Unit 2, FW Htr 5,6,7, West end of Tank	10% Chry; 20-40% Am;	8 LF
TT	24" OD White, Chalky Pipe Insulation w/ Canvas Jacket (Extraction)	Piping Located Above Unit 1, FW Htr 5,6,7, East end of Tank	10-60% Chry; 20-60% Am;	8 LF
VV	16", 12", 10", 8" Pipe Insulation, White, Chalky w/ Canvas Jacket	Pipes Connecting to Unit 2, FW Htr 5,6,7 on East end of Tank	5-80% Chry; 5-40% Am;	24 LF
VV	12" OD Pipe Insulation, White, Chalky w/ Canvas Jacket	Pipes at West End of Unit 3, FW Htr Tank No. 7	5-20% Chry; 40% Am;	16 LF
WW	Tank Insulation, White, Chalky w/ Canvas Jacket	Unit 2, FW Htr 5,6,7, East End of Tank	60-80% Chry; 10-20% Am; 10% Croc	36 SF
XX	Tank Insulation, White, Chalky w/ Canvas Jacket	Unit 3, FW Htr No. 7, West End of Tank	60-80% Chry; 10-20% Am;	36 SF
AAA	6" & 12" Pipe Insulation, White, Chalky w/ Smooth Aluminum Jacket	Piping at West End of Unit 3, FW Htr No. 5	30% Amosite	12 LF
CCC	18" OD Pipe Elbow Insulation, White, Chalky w/ Canvas Jacket	Unit 3, West End of FW Htr No. 5, Between Tank & Catwalk	20% Amosite	8 LF
EEE	Tank Insulation, Off White, Chalky w/ Canvas Jacket	Unit 4, FW Htr No. 7 at East End of Tank	60% Chry; 20% Amosite;	36 SF
FFF	12" Pipe Insulation, Off White, Chalky w/ Canvas Jacket & Smooth Aluminum Jacket	North and Bottom Sides of Unit 4, FW Htr Tank No. 7 at East End	5-10% Chry; 30-60% Am;	12 LF
GGG	12" & 16" Off White Pipe Fitting Insulation w/ Canvas Jacket	Piping Connected to Unit 4, FW Htr Tanks 5, 6, 7 on East End of Tank	5-40% Chry; 20-40% Am;	30 LF

ID	Material	Location	Percentage/ Type	Approx. Quantity*
III	Off White Tank Insulation w/ Canvas Jacket Gray	Small Tank Above Unit 4, FW Htr Tank No. 7 at East End Unit, Applied to the Western Segment of the Tank	10-80% Chry; 10-20% Am;	20 SF
LLL	6" OD Pipe Insulation, Off White, Chalky w/ Smooth Aluminum Jacket	East End of Unit 4 Condenser, 4' East of Condenser, approx. 7' High	20% Amosite	30 LF
MM M	8" OD Pipe Insulation w/ Aluminum Jacket	East End of Unit 4 Condenser, 4' East of Condenser, approx. 9' High	Labeled as ACM	30 LF

Negative Materials

The following is a listing of the suspected asbestos-containing materials that were determined by laboratory analysis to not contain detectable amounts of asbestos:

Material ID	Sampled Material	Material Location
T	White Chalky Pipe Insulation w/ Aluminum Smooth Jacket	Piping on South Side of Unit 1, FW Htr No. 2
V	4" OD White, Chalky Pipe Insulation w/ Smooth Aluminum Jacket	Unit 2 FW HTR, No. 2, Pipes on West Side
W	4" OD Tan Chalky Pipe Insulation	South Side, Unit 2 FW HTR No. 2, at the Base
L	4", 12", 16" OD Light Blue Chalky Pipe Insulation	4"-U1, FW HTR No. 2, Level 3 & Level 2; 12"—Between U2, FW HTRs 1&2, Level 2, South ; 16"-U2 Base, FW HTR No. 1, East Side, U1&U2 FW Htrs Nos. 1, North Side, Floor Lvl 2
M	White Chalky Tank Insulation with Gray Canvas Jacket	Lower Tank Insulation on Unit 1, FW Htr No. 2 on South Side
N	Gray Fiberglass Insulation with Off-White and Gray Canvas Jacket	Unit 2, FW Htr No. 1, Base of Tank Vessel
X	12"&16" OD White, Chalky Pipe Insulation	Unit 2 FW Htr Nos. 1&2, Lvl 3, South Side
Y	16" OD White Chalky Pipe Insulation w/ Orange Peel Aluminum Jacket	Platform Area Between Levels 1 & 2, Unit 1 FW Htr No. 2, Risers and U-turn
Z	16" Light Blue Chalky Pipe Insulation w/ Aluminum Orange Peel Jacket	Unit 1, FW Htr No. 1, Line Off NE Side Riser and Top U-Turn
K	Orange / Peach Pipe TSI	4" O.D. Line West Side of Unit 4 FW HTR No. 3 Vessel; 20" O.D. Line to BFW Pump Top of Unit 4 FW HTR No. 3 Vessel; 20" O.D. Line to Vessel Unit 4 FW HTR No. 3 North End Bottom

Material ID	Sampled Material	Material Location
AA	16" OD Gray Sandy & Fibrous Pipe Insulation w/ White Canvas Jacket	Bottom of Htr @ Levels 1-2 Platform, Unit 1, FW Htr No. 1
CC	Off White, Chalky Tank Insulation w/ White Canvas Jacket	Base of Tank, Unit 1, FW Htr No. 1
DD	White Chalky Tan Insulation w/ Painted Gray Canvas Jacket	Base of Tank, Unit 1, FW Htr No. 2
EE	6" Riser and 8" OD White Chalky Pipe Insulation From Drip Line	Unit 1, FW Htr No. 2, Just Under Level 3, Elbow at the Tank; Unit 2, FW Htr No. 2, Lvl 2, NW side at Tank (6")
FF	4" OD White Chalky Pipe & Elbow Insulation w/ Alum Jacket	East Side of U1, FW HTR No. 2 (Condensate)
JJ	16" OD Pipe Insulation, White, Chalky w/ Canvas Jacket	SW Base of U2, FW HTR No. 1; Patch at W. side of Relief Valve VCC-1876 at U1, FW Htr No. 1
KK	16" OD Pipe Elbow Insulation & Canvas Jacket, Asphalt	Unit 1, FW Htrs 1&2, So. Side at VCC-1876 Relief Valve
MM	Tank End Cap Insulation, Off White, Chalky w/ Painted Lt Blue Asphalt Jacket (w/ Goop)	Unit 1, FW Htr No. 2, Top Lid above Level 3
UU	16" OD Pipe Insulation, White, Chalky (Patch)	N. Side Piping, 7' above tank base platform, Unit 1, FW Htr No. 1, next to Column
YY	Tank Insulation White, Chalky w/ Black Asphalt Jacket	Small Tank Above West End of Unit 3, FW Htr No. 7
ZZ	10" OD Pipe Insulation White, Chalky w/ Orange Peel Aluminum Jacket	Pipe Between Unit 3 FW Htrs 6&7 and 5&6
K	Orange/Peach Pipe and Pipe Fitting Insulation	Unit 3 FW Htr No. 6 at West End on Pipe Elbow near Catwalk Floor Level
BBB	6" Pipe Elbow Insulation White Wool Under Alum Jacket	Unit 3, FW Htr No. 5 at West End
DDD	Tank Insulation White, Chalky w/ Canvas Jacket	Unit 3, FW Htr No. 5, on West End of Tank
HHH	White Tank Insulation w/ Black Asphalt Jacket	Small Tank Above Unit 4, FW Htr No. 6, East Side of Condensing Unit
JJJ	4" Pipe Insulation Beige/White, Chalky w/ Orange Peel Aluminum Jacket	Piping Around Unit 4, FW Htrs 5, 6, and 7 on East Side of Unit 4 Condensing Unit
KKK	12" OD Off White, Chalky Pipe Insulation w/ Aluminum Jacket	East Side of Unit 4 Condenser: Line off S. Side of FW Htr No. 6; Line Connecting FW Htrs 5 & 6
NNN	White Fiberglass/Wool Insulation on 10"-12" Piping	East Side of Unit 4 Condenser, in Area of FW Htrs 5 & 6.

CONCLUSIONS

Results of analysis confirmed that asbestos was identified in concentrations greater than 1% within some of the bulk samples collected. The condition of the identified asbestos-containing materials (1.0% asbestos or greater) were observed to be in fair to good condition at the time of this inspection.

Based on observations and laboratory analytical results, it appears that spot abatements and repairs have occurred over the years to pipe and tank insulations identified in this report. In some cases, the cut point of ACM vs. Non-ACM is not readily in view, due to application of insulation jacketing. If not abating all insulations as assumed ACM, extreme care should be exercised to verify ACM insulations from Non-ACM insulations, prior to their removal.

California state regulations require notifications prior to the removal of asbestos-containing materials. A California certified supervisor shall be onsite during all asbestos removal activities and all asbestos removal work shall be conducted by California certified asbestos workers. All asbestos shall be removed following the applicable California regulations and applicable local and federal regulations.

CERTIFICATION AND SIGNATORY

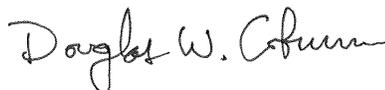
TRC hereby certifies that the services conducted and described in this document and the findings resulting from those services reported herein have been provided in a manner consistent with the current standards of the profession and, to the best of our knowledge, comply with all federal, state, and local statutes, regulations, and ordinances.

Sincerely,

TRC Environmental Corporation



K. Heath Howard
Industrial Hygienist



Douglas W. Coburn, REA, CAC
Senior Project Manager
Cal/DOSH Certification #92-0223

DISCLAIMER

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by Client, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner in accordance with applicable regulations and generally accepted practices exercised by the environmental professional community. TRC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information of other parties.

This report is designed to aid the property owner, architect, construction manager, general contractor, and tiered subcontractors in locating ACM. This report is not intended for, and may not be utilized as a bidding document or as an abatement project specification document. The listed materials and respective locations given are specific only to those areas as it pertains to this specific project. The Scope of Services performed may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or findings, conclusions or recommendations presented herein is at the sole risk of said user. TRC makes no representation regarding the extent of ACM and/or ACCM or conditions pertaining thereto of areas located outside the scope of work. Additionally, hidden suspect materials may be present within the work area(s) that were not sampled due to accessibility limitations outside of TRC's control.

Opinions and recommendations presented herein apply to the site conditions at the time of this investigation. Changes in the conditions of this property may occur over time due to natural processes or the works of man. Revisions in the applicable standards may also occur as the result of legislation or the broadening of knowledge. Accordingly, the findings of this report could be invalidated, wholly or in part by changes beyond our control.

APPENDIX A

Laboratory Analytical Report



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Environmental Remediation Services, Inc.

Lab Log #: 0044164
 Project #: 215602.0000.0000
 Date Received: 06/26/2014
 Date Analyzed: 06/27/2014

Site: Dynege Power Plant, Morro Bay, CA

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
O-2	White	Yes	No	--	---	60% 10%	Chrysotile Amosite
O-3	White	Yes	No	--	---	5% 10%	Amosite Crocidolite
O-4	White	Yes	No	--	---	30% 20%	Chrysotile Amosite
O-5	White/Light Grey	Yes	No	--	10% cellulose 30% mineral wool 20% synthetic fiber	ND	None
O-6	White	Yes	No	--	---	40% 40%	Chrysotile Amosite
O-7	Beige	Yes	No	--	---	20% 40%	Chrysotile Amosite
S-1	Dark Grey	Yes	No	--	---	40%	Chrysotile
S-2	Dark Grey	Yes	No	--	2% cellulose 10% mineral wool	ND	None
S-3	Dark Grey	Yes	No	--	---	40%	Chrysotile
T-1	White	Yes	No	--	20% synthetic fiber	ND	None
U-1	White	Yes	No	--	---	60% 20%	Chrysotile Amosite
U-2	White	Yes	No	--	---	20% 40%	Chrysotile Amosite
U-3	White	Yes	No	--	---	20% 40% 3%	Chrysotile Amosite Crocidolite
V-1	White	Yes	No	--	20% synthetic fiber	ND	None
V-2	White	Yes	No	--	20% synthetic fiber	ND	None
V-3	White	Yes	No	--	20% synthetic fiber	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
W-1	Beige	Yes	No	--	1% synthetic fiber	ND	None
L-3a	Blue	Yes	No	--	20% synthetic fiber	ND	None
X-1	White	Yes	No	--	20% cellulose	ND	None
X-2	White	Yes	No	--	20% cellulose	ND	None
X-3	White	Yes	No	--	20% cellulose	ND	None
Y-1	White	Yes	No	--	1% cellulose 1% synthetic fiber	ND	None
Y-2	White	Yes	No	--	20% cellulose 10% synthetic fiber	ND	None
Y-3	Grey	Yes	No	--	30% cellulose	ND	None
Z-1	Blue	Yes	No	--	10% synthetic fiber	ND	None
Z-2	Blue	Yes	No	--	10% synthetic fiber	ND	None
Z-3	Blue	Yes	No	--	10% synthetic fiber	ND	None
AA-1	Grey/White	Yes	No	--	10% cellulose 80% fibrous glass	ND	None
BB-1	Light Grey	Yes	No	--	---	40% 40%	Chrysotile Amosite
M-03	Grey/Blue	Yes	No	--	30% cellulose 5% mineral wool	ND	None
N-1	Beige	Yes	No	--	20% cellulose 20% fibrous glass	ND	None
N-3	Beige/Grey	Yes	No	--	10% cellulose 40% fibrous glass	ND	None
CC-1	Off White/Pink	Yes	No	--	30% cellulose	ND	None
CC-2	Off White/Pink	Yes	No	--	30% cellulose	ND	None
CC-3	Off White/Pink	Yes	No	--	30% cellulose	ND	None
DD-1	White/Grey	Yes	No	--	10% cellulose 30% mineral wool	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
DD-2	White/Grey	Yes	No	--	10% cellulose 30% mineral wool	ND	None
DD-3	White/Grey	Yes	No	--	10% cellulose 30% mineral wool	ND	None
EE-1	White	Yes	No	--	10% synthetic fiber	ND	None
EE-2	White	Yes	No	--	10% synthetic fiber	ND	None
EE-3	White	Yes	No	--	20% cellulose	ND	None
FF-1	White	Yes	No	--	20% synthetic fiber	ND	None
FF-2	White	Yes	No	--	20% cellulose	ND	None
FF-3	White	Yes	No	--	10% synthetic fiber	ND	None
L-3b	Blue	Yes	No	--	20% synthetic fiber	ND	None
GG-1	Light Grey	Yes	No	--	---	60% 10% 10%	Chrysotile Amosite Crocidolite
GG-2	Light Grey	Yes	No	--	40% mineral wool	10%	Chrysotile
GG-3	Light Grey	Yes	No	--	40% mineral wool	30%	Chrysotile
HH-1	White/Light Grey	Yes	No	--	5% cellulose 60% mineral wool	ND	None
HH-2	White/Light Grey	Yes	No	--	5% cellulose 60% mineral wool	ND	None
HH-3	White/Beige	Yes	No	--	---	60% 20% 5%	Chrysotile Amosite Crocidolite
II-1	White	Yes	No	--	20% cellulose	ND	None
II-2	White	Yes	No	--	---	40%	Amosite
II-3	White	Yes	No	--	20% cellulose 10% mineral wool	ND	None
L-4	Light Blue	Yes	No	--	20% synthetic fiber	ND	None
L-5	Light Blue	Yes	No	--	20% synthetic fiber	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
L-6	Light Blue	Yes	No	--	20% synthetic fiber	ND	None
JJ-1	White	Yes	No	--	20% synthetic fiber	ND	None
JJ-2	Grey	Yes	No	--	30% fibrous glass	ND	None
KK-1	Grey/Black	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
KK-2	Grey/Black	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
KK-3	Grey/Black	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
LL-1	Grey	Yes	No	--	30% cellulose 30% mineral wool	ND	None
LL-2	Grey	Yes	No	--	10% cellulose 10% mineral wool	ND	None
LL-3	Grey	Yes	No	--	10% mineral wool	10%	Chrysotile
MM-1	White	Yes	No	--	5% cellulose	ND	None
MM-2	White/Black/Blue	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
MM-3	White/Black/Blue	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
NN-1	Sample Not Submitted						
EE-4	White	Yes	No	--	10% cellulose 10% mineral wool	ND	None
II-4	White/Black	Yes	No	--	---	40%	Chrysotile
II-5	White/Black	Yes	No	--	10% fibrous glass 10% synthetic fiber	ND	None
EE-5	White	Yes	No	--	30% cellulose 10% fibrous glass	ND	None
OO-1	White	Yes	No	--	---	10% 20%	Chrysotile Amosite
OO-2	White	Yes	No	--	---	10% 20%	Chrysotile Amosite

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
OO-3	White	Yes	No	--	10% cellulose	40% 10%	Chrysotile Amosite
PP-1	White	Yes	No	--	---	80% 10%	Chrysotile Amosite
PP-2	White	Yes	No	--	---	10% 30%	Chrysotile Amosite
PP-3	White	Yes	No	--	---	10% 30%	Chrysotile Amosite
QQ-1	White	Yes	No	--	---	20% 30%	Chrysotile Amosite
QQ-2	White	Yes	No	--	---	20% 30%	Chrysotile Amosite
QQ-3	White	Yes	No	--	---	80% 10% 3%	Chrysotile Amosite Crocidolite
RR-1	White	Yes	No	--	---	10% 60%	Chrysotile Amosite
RR-2	White	Yes	No	--	---	10% 20%	Chrysotile Amosite
RR-3	White	Yes	No	--	---	30%	Amosite
SS-1	White	Yes	No	--	20% cellulose	10% 40%	Chrysotile Amosite
SS-2	White	Yes	No	--	---	10% 20%	Chrysotile Amosite
SS-3	White	Yes	No	--	---	10% 20%	Chrysotile Amosite
TT-1	White	Yes	No	--	10% cellulose	60% 20%	Chrysotile Amosite
TT-2	White	Yes	No	--	---	10% 60%	Chrysotile Amosite
TT-3	White	Yes	No	--	---	20% 20%	Chrysotile Amosite
UU-1	Light Blue/White	Yes	No	--	10% 20% fibrous glass synthetic fiber	ND	None
L-7	Light Blue	Yes	No	--	20% synthetic fiber	ND	None
L-8	Light Blue	Yes	No	--	20% synthetic fiber	ND	None
L-9	Light Blue	Yes	No	--	20% synthetic fiber	ND	None
VV-1	White	Yes	No	--	10% cellulose	80% 5%	Chrysotile Amosite
VV-2	White	Yes	No	--	---	5% 40%	Chrysotile Amosite

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
VV-3	White	Yes	No	--	10% cellulose	40% 40%	Chrysotile Amosite
WW-1	White	Yes	No	--	---	60% 10% 10%	Chrysotile Amosite Crocidolite
WW-2	White	Yes	No	--	---	60% 20%	Chrysotile Amosite
WW-3	White	Yes	No	--	---	80% 10% 5%	Chrysotile Amosite Crocidolite
VV-4	White	Yes	No	--	---	40%	Amosite
VV-5	White	Yes	No	--	---	20% 40%	Chrysotile Amosite
VV-6	White	Yes	No	--	---	5% 40%	Chrysotile Amosite
XX-1	White	Yes	No	--	---	80% 10%	Chrysotile Amosite
XX-2	White	Yes	No	--	---	60% 20%	Chrysotile Amosite
XX-3	White	Yes	No	--	---	60% 20%	Chrysotile Amosite
YY-1	White/Black	Yes	No	--	20% cellulose	ND	None
YY-2	White/Black	Yes	No	--	40% cellulose	ND	None
YY-3	Grey	Yes	No	--	10% 30% cellulose mineral wool	ND	None
ZZ-1	Cream	Yes	No	--	20% synthetic fiber	ND	None
ZZ-2	Cream	Yes	No	--	20% synthetic fiber	ND	None
ZZ-3	Cream	Yes	No	--	20% synthetic fiber	ND	None
K-4	Pink	Yes	No	--	10% cellulose	ND	None
AAA-1	White	Yes	No	--	20% synthetic fiber	ND	None
AAA-2	White	Yes	No	--	20% synthetic fiber	ND	None
AAA-3	White	Yes	No	--	---	30%	Amosite
BBB-1	White	Yes	No	--	---	ND	None
BBB-2	White	Yes	No	--	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
BBB-3	White	Yes	No	--	---	ND	None
CCC-1	White	Yes	No	--	1% cellulose 10% synthetic fiber	ND	None
CCC-2	White	Yes	No	--	20% cellulose 20% synthetic fiber	ND	None
CCC-3	White	Yes	No	--	10% fibrous glass	20%	Amosite
DDD-1	White/Grey	Yes	No	--	10% fibrous glass 10% synthetic fiber	ND	None
DDD-2	White	Yes	No	--	20% synthetic fiber	ND	None
DDD-3	White	Yes	No	--	20% synthetic fiber	ND	None
EEE-1	White/Grey	Yes	No	--	---	60% 20%	Chrysotile Amosite
EEE-2	White/Grey	Yes	No	--	---	60% 20%	Chrysotile Amosite
EEE-3	White/Grey	Yes	No	--	---	60% 20%	Chrysotile Amosite
FFF-1	Off White	Yes	No	--	---	10% 30%	Chrysotile Amosite
FFF-2	White	Yes	No	--	---	5% 60%	Chrysotile Amosite
FFF-3	White	Yes	No	--	---	60%	Amosite
GGG-1	White	Yes	No	--	---	40% 40%	Chrysotile Amosite
GGG-2	White	Yes	No	--	---	5% 30%	Chrysotile Amosite
GGG-3	White	Yes	No	--	---	20% 20%	Chrysotile Amosite
HHH-1	White/Black	Yes	No	--	30% cellulose 10% fibrous glass	ND	None
HHH-2	White/Black	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
HHH-3	White/Black	Yes	No	--	10% cellulose 10% fibrous glass	ND	None
III-1	Off White	Yes	No	--	---	30% 20%	Chrysotile Amosite
III-2	Off White	Yes	No	--	---	10% 10%	Chrysotile Amosite

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
 RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
III-3	Off White	Yes	No	--	---	80% 10%	Chrysotile Amosite
JJJ-1	Beige	Yes	No	--	10% 10% cellulose synthetic fiber	ND	None
JJJ-2	Beige	Yes	No	--	10% 10% cellulose synthetic fiber	ND	None
JJJ-3	Beige	Yes	No	--	10% synthetic fiber	ND	None
K-5	Pink	Yes	No	--	10% cellulose	ND	None
KKK-1	Off White	Yes	No	--	20% 10% cellulose synthetic fiber	ND	None
KKK-2	Off White	Yes	No	--	20% 10% cellulose synthetic fiber	ND	None
KKK-3	Off White	Yes	No	--	20% cellulose	ND	None
K-6	Pink	Yes	No	--	10% cellulose	ND	None
K-7	Pink	Yes	No	--	10% cellulose	ND	None
K-8	Pink	Yes	No	--	10% cellulose	ND	None
LLL-1	Grey	Yes	No	--	---	20%	Amosite
LLL-2	Grey	Yes	No	--	---	20%	Amosite
LLL-3	Grey	Yes	No	--	---	20%	Amosite

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
------------	-------	------------	---------------	-----------	------------------------	------------	---------------

Reporting limit- asbestos present at 1%
 ND<1% - asbestos was not detected
 Trace - asbestos was observed at level of less than 1%
 NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson Reviewed by: Amanda Parkins **Date Issued**
 Kathleen Williamson, Laboratory Manager Amanda Parkins, Approved Signatory 06/30/2014

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
 RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380
PROJECT NUMBER
215602

ASBESTOS BULK SAMPLING
CHAIN OF CUSTODY

LAB ID #. 44164

PROJECT NAME
Dyneon - Morro Bay, CA
Project Plant

INSPECTOR
Davey Coburn

SIGNATURE
D. Coburn

TYPE
GRAB

TIME

DATE

FIELD SAMPLE NUMBER

SAMPLE LOCATION

PLM EPA 600/R93/116
(Positive Stop)

ANALYZE BY LAYER

POINT COUNT
(F > 1% & < 10%)

TEM NY NOB 1984
(F PLM SERIES NEG)

TURNAROUND TIME

PLM: 8hr 24hr 48hr 3day
TEM: 24hr 48hr 3day 5day

MATERIAL

Bulk - Materials
Analyze All

Relinquished by: (Signature) D. Coburn	Date: 6-24-14	Received by: (Signature) [Signature]	Date: 6/26/14
(Printed) Davey Coburn	Time: 1000	(Printed) [Signature]	Time: (Printed)
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		

44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy - Morro Bay Power Plant Job # 215602
 Inspector: Doug Coburn #92-0223 Date: 6-23-14
 Page # 3 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
AA-1	16" Gray Sandy Fibrous Pipe Insul w/ White Canvas Jacket	Bottom of HTR Platform off SE side	U1 FWHTR No. 1	B/T Level 1+2		
BB-1	16" Valve Fitting Insul	Bottom of HTR platform off SW side	U1 FWHTR No. 2	B/T W 1+2		
M-03	Ham ID (M)	Lower Tank of U1 FWHTR No. 1 on S. side				
N-1	Gray Fiberglass Insul w/ off white Chalky and Gray Canvas Jacket	U2 FWHTR No. 1 Base of Vessel				
N-3						
CC-1	off white Chalky Tank Insul w/ White Canvas Jacket	Base of U1 FWHTR No. 1		40SF		
DD-1	White Chalky Tank Insul. w/ Painted Gray Canvas Jacket	Base of Tank U1 FWHTR No. 2		40SF		

Rel. Doug Coburn 6-24-14
 w/ 22/14/1520
 Read by: [Signature]



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy Morro Bay Power Plant Job # 215602
 Inspector: D. Coburn #92-0223 Date: 6-23-14
 Page # 4 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Hom. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
EE-1	8" O.D. White Chalky Insul From Drip Line	Just under Lvl 3 Elbow	U1 FWHtr No 2	NE Side		Lvl 2
EE-2		Run, orange paint				
EE-3		Riser Smooth Alum				
FF-1	4" O.D. White Chalky Pipe + Elbow Insul w/ Alum Jacket	U1 FWHtr No 2, E Side	@ Lvl 2	Condensate		
L-3b	4" O.D Lt Blue Pipe Insul	U1 FWHtr No 2	E Side @ Lvl 2	< 1 LF		
GG-1	Pump Box Insulation Lt Gray	U1 FWHtr No 2	Lvl 2, E Side	4 SF		
2						
3						
HH-1	White Chalky Pipe Insul @ Elbows w/ Condens Jacket	U2 FWHtr No 2	16" U2 + 16" OA			
2		U2 FWHtr No 1	16" Base Platform			
3		U2 FWHtr No 1	16" E Side Lvl 1			

Rel. D. Coburn 6-24-14
 Recd by: U2 6/26/14 10:00



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy - Morro Bay Power Plant

Job # 215602

Inspector: Doug Coburn

Date: 6-23-14

Page # 5 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
II-1	16" OD White Chalky Pipe Insul w/ Canvas Jacket + Grip	U2 FWHTR No 2 Base Valve	16" OD			
II-2		U2 FWHTR No 2 Base Valve	16" OD			
II-3		U2 Line SW of U2 Tank @ Base				
L-4	12" O.D. Pipe Insul LT Blue Chalky	BIT U2 FWHTRS 1+2 Level 2, South Side on Elbow				
L-5						
L-6	16" OD Pipe Insul LT Blue Chalky	Base of U2 FWHTR No 1, E-Side	Level 1			
JJ-1	16" OD Pipe Insul white Chalky w/ Canvas Jacket	SW Base of U2 FWHTR No 1				
JJ-2		Patch U1 FWHTR U1 W Side of VCC-1876			Relief Valve	
KK-1	16" OD Pipe Elbow INSULATION + Canvas Jacket, Asphalt	U1 FWHTR 1+2, So. Side @ VCC-1876	Relief Valve			
KK-2						
KK-3						
KK-4	Pipe Elbow INSULATION, white Chalky w/ Canvas Jacket, Asphalt Jacket	U1 FWHTR 1+2, So. Side @ VCC-1876	Relief Valve			

Rel. D. Coburn 6-24-14

Red by: U2 6/24/14



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy Morro Bay Power Plant
 Inspector: Doug Coburn

Job # 215602
 Date: 6-24-14
 Page # 6 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
LL-1	Tank End-Cap	U2 FW Htr No. 2, Top Lid				
↓ 2	Insulation, off white	↓				
↓ 3	Chalky. w Blue Asphalt	↓				
MM-1	Gap Jacket	U1, FW Htr No. 2 Top Lid				
↓ 2	↓	↓				
↓ 3	↓	↓				
NN-1	14" Pipe Insl Patch	U2, FW Htr No 2, Lvl 2, NWSide at Tank				
EE-4	8" Pipe Insul white Above Jacket	↓				
II-4	14" Pipe Insul	U2 FW Htr No 2 Lvl 2, N+W Sides				
II-5	Fitting Insul Patches	6" Elbow U2 FW Htr No 2, Lvl 2, NW Side				
EE-5	Insul Pipe white Chalky + Jacket	6" Riser U2 FW Htr No 2, Lvl 2, New Side				

Rel. D. Coburn 6-24-14
 Read by: [Signature] 6/26/14 1000



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy - Morro Bay Power Plant
 Inspector: D. G. Gunn

Job # 215602
 Date: 6-24-14
 Page # 7 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
00-1	White Chalky Pipe Insul w Canvas Jacket 12" OD	U1, FW Htr 5,6,7, ↓	12" Pipe North of Tank			
↓		↓				
↓						
PP-1	White, Chalky Tank Insul w/ Canvas Jacket	U1, FW Htr 5,6,7 ↓	E. end, W. of Flange Ring			
↓						
↓						
QQ-1	White Chalky Tank Insul w/ Canvas Jacket	U2, FW Htr 5,6,7 ↓	W. end, E side of Flange			
↓						
↓						
RR-1	12" OD Pipe Insul white, Chalky w/ Canvas Jacket	U2, FW Htr 5,6,7 ↓	W. end, 12" Pipe Insul off N. side			
↓						
↓						
SS-1	24" OD Pipe Insul white, Chalky w/ Canvas Jacket	↓	24" Ext Pipe above Htr			
↓						
↓						

Rel. D. Gunn 6-24-14
 Read by: U... 6/24/14 1000



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy Morro Bay Power Plant
 Inspector: D. Coburn 92-0223

Job # 215602
 Date: 6-24-14
 Page # 8 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
TT-1	24" OD Pipe Insul White, Chalky w/Canvas Jacket	Above U1 FW Htr 5, 6, 7	on Ext Pipe	E side of Tank		
2						
3						
UU-1	Pipe Insul, White Chalky, 16" OD (Patch)	U1, FW Htr No 1	N. side, 7' above	Platform		Near E. of Column
						Near Col.
L-7	16" O.D. Lt Blue Chalky Pipe Insul w Alum Jacket					
L-8						
L-9						
VV-1	16", 12", 17" 8" Pipe Insul, White, Chalky + Canvas Jacket	U2 FW Htr No 1	N. side	7' above Platform		
2						
3						
WW-1	Tank Insulation White, Chalky w/ Canvas Jacket	U2, FW Htr 5, 6, 7	E. end on Tank	N. side		
2						
3						

Rel. D. Coburn 6-24-14
 Read by: _____ 6/26/14 10:00



414164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy - Morro Bay Power Plant
 Inspector: Dave Coburn #92-0223
 Job # 215602
 Date: 6-24-14
 Page # 9 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
VV-4	12" Pipe Insul white, Chalky w/ Canvas Jacket + Elbow	U3, FW Htr No. 7, 12" Line under W. end of Tank				
VV-5		↓				
VV-6		↓				
XX-1	White Tank Insul white, Chalky w/ Canvas Jacket	U3 FW Htr No. 7, W. end on Tank				
↓ 2		↓	on Flange			
↓ 3		↓	on Flange			
YY-1	Tank Insulation white, Chalky w/ Black Asphalt Jacket	Small Tank above W. end of U3 FW Htr No. 7				
↓ 2						
↓ 3						110
ZZ-1	10" Pipe Insul white, Chalky w/ Orange Peel Alum Jacket	U3 Pipe BT U3 FW Htrs 6+7				
↓ -2		↓	5+6			
↓ -3		↓	5+6			
KK-4	Orange/Peach Pipe Fitting Insul	U3 FW Htr No. 6, W. end Pipe Elbow @ Cent. walk floor				

Rel. D. Coburn 6-24-14

Read by: _____ 6/26/14 10000



441604

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dyneer Morro Bay Power Plant
Inspector: D. Coburn 92-0223

Job # 215602
Date: 6-24-14
Page # 10 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
AAA-1	6" Pipe Insul white Chalky w/Smooth Alum Jacket	U3 FW Htr No. 5, W. end	6" Piping			
-2						
-3						
BBB-1	6" Pipe-EIbow Insul White					
2						
3						
CCC-1	18" Pipe + Elbow Insul, white Chalky + Canvas Jacket	U3 W. end of FW Htr No. 5, BA	Tank + Catwalk			
2						
3						
DDD-1	Tank Insul white, Chalky w/ Canvas Jacket	U3, FW Htr No. 5, Tank	on W. end			
2						
3						
EEE-1	Tank Insul off white, chalky w/ Canvas Jacket	U4 FW Htr No. 7, E. end, W. of flange Ring	on Flange Ring			
-2						
-3						

Rel. D. Coburn 6-24-14

Read by: [Signature] 6/26/14 10:00



441104

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dynegy Morro Bay Power Plant Job # 215602
 Inspector: Doug Coburn 92-0223 Date: 6-24-14
 Page # 11 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Homo. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
FFF-1	2" Pipe Insulation, off white, chalky, w/ Canvas and Smooth Alum Jacket	U4, FW Htr No. 7, E. end, 2 ft. North of Tank				
↓ - 2		↓				
↓ 3		↓				
GGG-1	12" + 16" off white Pipe Fitting Insul w/ Canvas Jacket	U4 FW Htr No. 7, N. Side at E. end, Near Bottom of Tank				
↓ - 2		↓				
↓ - 3		↓				
HHH-1	White Tank Insul w/ Black Asphalt Jacket	U4, FW Htr No. 5, E. end on 6" x 6" Small Tank above U4 FW Htr No. 7 @ E. end, of Tank				
↓ - 2		↓				
↓ - 3		↓				
III-1	off White Tank Insulation w/ Canvas Jacket - Gray					
↓ 2						
↓ 3						
JJJ-1	4" Pipe Insul w/ White Chalky w/ Orange Peel Alum Jacket	Piping above E. end of U4 FW Htr No. 6				
↓ 2		No. 6 - Go. Run Under E. end of U4 FW Htrs 5, 6, 7				
↓ 3		↓				

Rel. D. Coburn 6-24-14
 Rec'd by _____ 6/26/14 1000



44164

TRC BULK SAMPLE FIELD SHEET

Job/Location: Dinegy Power Plant - Morra Bay

Job # 215602

Inspector: Doug Coburn

Date: 6-24-14

CAC # 92-0223

Page # 12 of 12

Bulk Sample Field Sheet						
Sample #	Material / Photo #	Sample Location	Homogeneous Area	Hom. Area (SF/LF)	Friability (NF or F)	Damage (ND, D, SD)
K-5	Orange/Peach Chalky Pipe 10" Insulation w Alum Jacket	Elbow E. of E. end U4 FW HTR No. 5 at ventwalk line				
KKK-1	Off White, Chalky Pipe Insul, 12" ID	At Elbow line off S. side of U4 FW HTR No. 6				
-2	Orange/Pink Chalky Pipe Insul w/ smooth Alum Jacket	Line connecting U4 FW HTRs 5 & 6				
-3	Off White, Chalky Pipe Insul, 12" ID	At Elbow line off S. side of U4 FW HTR No. 7				
K-6	Orange/Pink Chalky Pipe Insul w/ smooth Alum Jacket	U4 FW HTR No. 5 above and South side of Tank				
L-1	6" O.D. Pipe Insul off white, Chalky w/ smooth Alum Jacket	E. end of U4 Condenser, 4' E of Cond. 7' High, N.				
L-2						
L-3						

E. end U4 FW HTR 5 - is fiberglass
 " " " " No. 6 Labeled Non-Asbestos w/ photo
 Rel. P. Coburn 6-24-14 Rec'd by: Lee 10/26/14



APPENDIX B
Consultant Certifications

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health

Asbestos Unit

2424 Arden Way, Suite 495

Sacramento, CA 95825-2417

(916) 574-2993 Office (916) 483-0572 Fax

<http://www.dir.ca.gov/dir/databases.html> actu@dir.ca.gov

207010223C

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June 26, 2013

Douglas W Coburn
14922 Laurelgrove Circle
Irvine CA 92604

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email; of any changes in your contact/mailling information within 15 days of the change.

Sincerely,

Jeff Ferrell
 Senior Safety Engineer

Attachment: Certification Card

cc: File

State of California
 Division of Occupational Safety and Health
Certified Asbestos Consultant

Douglas W Coburn

Name
 Certification No. 92-0223
 Expires on 07/10/14



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

Renewal – Card Attached (Revised 10/24/2012)