

PERMIT AMENDMENT APPROVAL

Title: <u>IDENTIFY CO-GEN FACILITIES</u>	PERMIT NUMBER: <u>ACT/007/035</u>
Description: <u>DESCRIBE SURFACE COAL OPERATIONS</u>	PERMIT CHANGE #: <u>93P</u>
	MINE: <u>REFUSE & SURVEY</u>
	PERMITTEE: <u>SCA</u>

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

YES, NO or N/A

1. The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	N/A
2. The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	[Handwritten mark]
A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	
B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	
3. For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	
4. The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	
5. The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.).	
6. The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	
10. The Applicant has satisfied the applicable requirements of R645-302.	
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

YES NO

1. Are there any variances associated with this permit amendment approval? If yes, attach.	
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.	X
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.	

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed

[Handwritten Signature]

Director, Division of Oil, Gas and Mining

1-13-54

EFFECTIVE DATE



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

**PERMIT CHANGE
SPECIAL CONDITIONS TO THE PERMIT
ACT/007/035-93P
January 13, 1994**

The Division hereby approves Permit Change ACT/007/035-93P for incorporation into the plan, subject to the following Special Conditions:

1. The text, drawings, plans and other information included in this proposed permit change have been found sufficiently complete for incorporation of the information into the plan. The Division has accepted this information as an Amendment to the currently approved Plan subject to the provisions of violation N93-13-2-1. Any changes ordered by the Division following the Division's technical review for abatement of violation N93-13-2-1 may require changes to the information provided in this Permit Change.



PERMIT CHANGE TRACKING FORM

DATE RECEIVED	12/8/93	PERMIT NUMBER	ACT/007/035
Title of Proposal:	Identify Cogeneration Facilities	PERMIT CHANGE #	93P
Description:	Described surface coal mining operations	PERMITTEE	Sunnyside Cogeneration Assoc.
		MINE NAME	Sunnyside Refuse/Slurry

	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION			<input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			Permit Change Classification
<input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.			<input type="checkbox"/> Significant Permit Revision
<input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)			<input type="checkbox"/> Permit Amendment
<input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.			<input type="checkbox"/> Incidental Boundary Change

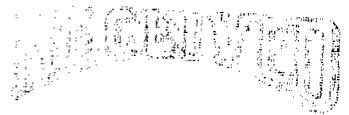
REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative <i>PH</i>		1-13-94				
<input type="checkbox"/> Biology						
<input type="checkbox"/> Engineering						
<input type="checkbox"/> Geology						
<input type="checkbox"/> Soils						
<input type="checkbox"/> Hydrology						
<input type="checkbox"/> Bonding						
<input type="checkbox"/> AVS Check						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> OSMRE						
<input type="checkbox"/> US Forest Service						
<input type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input type="checkbox"/> Other						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	<input checked="" type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.	1-13-94
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.	
<input checked="" type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.	
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.	

SUNNYSIDE COGENERATION ASSOCIATES

POST OFFICE BOX 58087
SALT LAKE CITY, UTAH 84158-0087



DEC 08 1993

DIVISION OF
OIL, GAS & MINING

December 8, 1993

Mr. Randy Harden
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Project No. EC450593: Sunnyside Cogeneration Associates - Violation No. N93-13-1-1

Dear Randy:

Violation No. N93-13-1-1 was issued for failure to identify and describe surface coal mining operations and activities related to surface coal mining operations and for failure to permit activities conducted in connection with surface coal mining operations. The Division requested remedial action on the part of SCA which involved, "Identifying, describing and locating all surface coal mining and reclamation activities by submittal of adequate permit changes to the plan which effectively describe and/or incorporate those structures into the permit and affected area." Sunnyside Cogeneration Associates ("SCA") responded by requesting an extension for Violation NO. N93-13-1-1 to December 15, 1993.

On October 7 and again on December 2, 1993 letters were written to Mr. Lowell Braxton and Mr. Jim Carter, respectively, which provided information adequate to fulfill the obligations of the violation and subsequently, requested that SCA not only provide additional information, but incorporate the information into the SCA PAP. Therefore, enclosed is a draft copy of Chapter Four which includes additional information regarding the crusher facility. Also included is a new plate, Plate 4-5, Cogeneration Facility, which shows the location of the cogeneration and crusher facility in relation to the SCA Permit Area. The appropriate request for permit change forms are also included. These enclosures should provide adequate information to satisfy the requirements of the violation.

Mr. Randy Harden
Division of Oil, Gas and Mining
Violation NO. N93-13-1-1
December 8, 1993
Page Two

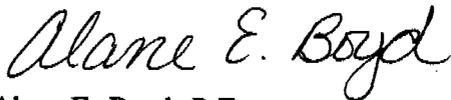
Once the enclosed documents have been approved by the Division, Chapter Four will be revised and resubmitted to the Division for inclusion in the PAP.

If there are any questions, please feel free to call.

Sincerely,



David Pearce
Authorized Member, Management Committee



Alane E. Boyd, P.E.
Senior Engineer

Enclosure

cc: Brian Burnett/Callister, Duncan and Nebeker

AEB;jws

APPLICATION FOR PERMIT CHANGE

Title of Change:

SUNNYSIDE COGENERATION ASSOCIATES

Response to Violation No. N93-13-1-1: Identify Cogeneration Facilities

Permit Number: **PRO/007/035**

Mine: **Sunnyside Cogen. Assoc.**

Permittee: **Sunnyside Cogen. Assoc.**

Description - include reason for change and timing required to implement:

Response to Violation No. N93-13-1-1: Identify Cogeneration Facilities

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Attached **3** complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all aspects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Alame E. Boyd, P.E. 12/8/93
Signed - Name - Position - Date

Subscribed and sworn to before me this _____ day of _____, 1993.

Linda Ercanbrack
Notary Public
LINDA ERCANBRACK
Notary Public
STATE OF UTAH
My Comm. Expires MAR 27, 1997
1121 E 3900 ST - 100 SLC UT 84124

My Commission Expires:
Attest: STATE OF
COUNTY OF

Received by Oil, Gas & Mining

December 8, 1993

ASSIGNED PERMIT CHANGE NUMBER

93 P

SUNNYSIDE COGENERATION ASSOCIATES

POST OFFICE BOX 58087
SALT LAKE CITY, UTAH 84158-0087

December 8, 1993

Mr. Randy Harden
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Project No. EC450593: Sunnyside Cogeneration Associates - Violation No. N93-13-1-1

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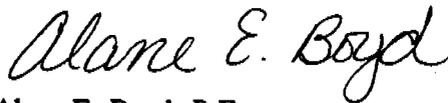
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Sincerely,



David Pearce
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Alane E. Boyd, P.E.
Senior Engineer

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cc: Brian Burnett/Callister, Duncan and Nebeker

AEB;jws

APPLICATION FOR PERMIT CHANGE

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SUNNYSIDE COGENERATION ASSOCIATES

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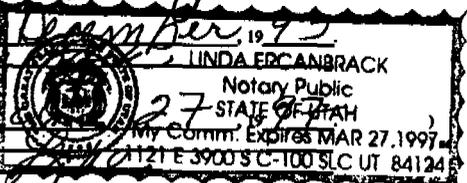
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Alame E. Boyd, P.E. 12/18/93
Signed - Name - Position - Date

Subscribed and sworn to before me this _____ day of _____, 1993

Linda Ercanbrack
Notary Public



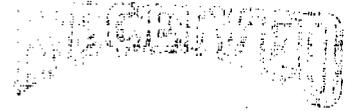
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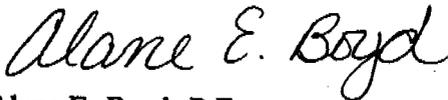
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cc: Brian Burnett/Callister, Duncan and Nebeker

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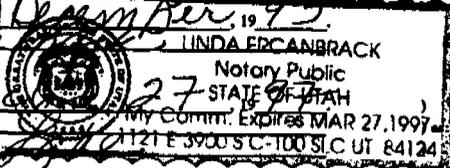
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Alane E. Boyd, P.E. 12/8/93
Signed - Name - Position - Date

Subscribed and sworn to before me this

8th day of December, 1993

Linda Ercanbrack
Notary Public



My Commission Expires:
Attest: STATE OF
COUNTY OF

Received by Oil, Gas & Mining

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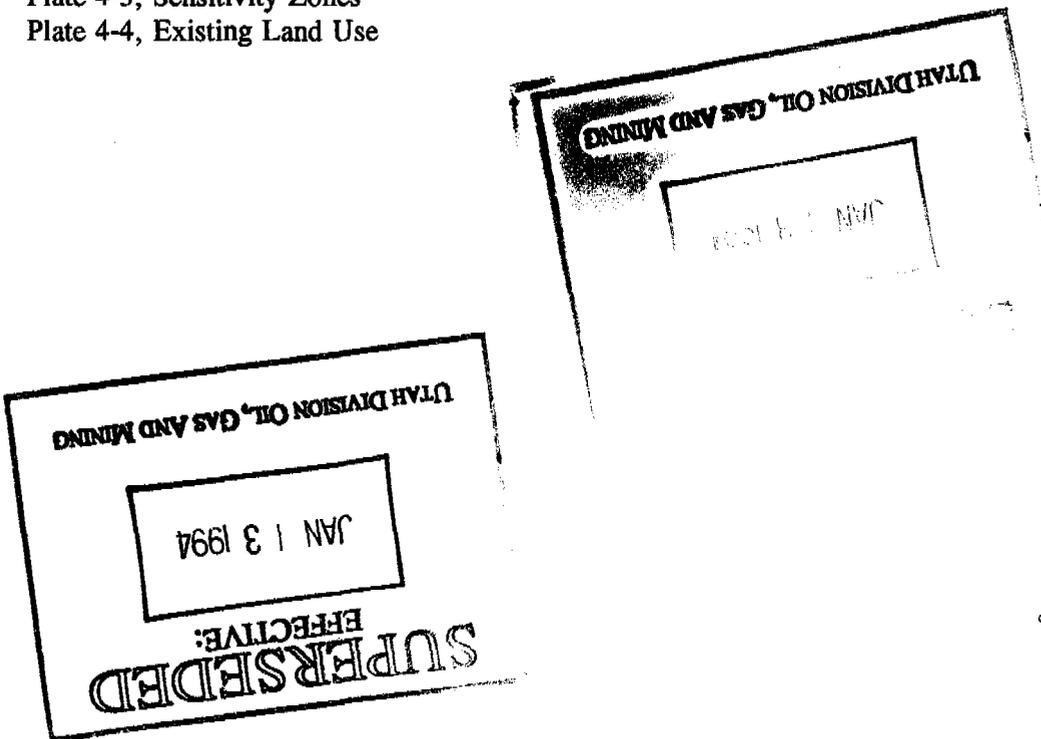
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CHAPTER FOUR 400 LAND USE AND AIR QUALITY

410 INTRODUCTION

Sunnyside Coal Company's (SCC) refuse disposal area has been acquired by Sunnyside Cogeneration Associates (SCA) to serve as a long-term supply of waste fuel for its coal mine waste-to-energy facility, located adjacent to the SCA Permit Area. SCA has contracted with SCC to provide alternative disposal for coal mine waste generated by SCC, both past and future. SCA's alternative energy project has been approved by the Federal Energy Regulatory Commission as a Qualifying Facility, based on the usage of coal mine waste as fuel in its fluidized-bed combustion boiler. SCA will use both "active waste", from the processing plant, and "accumulated waste", from the refuse pile, as sources of waste fuel for the facility. SCA's fueling plan will require excavation of coal mine waste from the existing refuse pile, beginning as early as January 1993 and continuing for approximately thirty years.

Based on SCA's contract for the sale of electricity to Utah Power and Light, handling coal mine waste to serve as an alternative energy fuel will be a consistent and continuous process. Coal mine waste that continues to be generated by SCC's preparation plant will also be factored into SCA's fueling strategy, which can allow direct acceptance of coal mine waste at the facility, or temporary placement within the refuse disposal area prior to utilization.

SCA will excavate coal mine waste from the refuse disposal area based on detailed sampling and analyses and a materials handling plan which will be continuously updated by SCA. Excavation of the coal mine waste will be considerate of material quality, pile and embankment stability, and mine operation. Over the life of SCA's facility, nearly all of the coal mine waste will be burned to generate electricity, resulting in significantly less material that will need final reclamation. Final reclamation of the refuse pile will be accomplished after all of the coal mine waste is either burned as a fuel, or repositioned within the refuse disposal area for final disposal, if determined to be non-combustible (i.e., ashes, rock).

Currently, there are activities that occur outside the Sunnyside Cogeneration Associates Permit Boundary that have significant bearing on the operations of the SCA Cogeneration facility and the SCA Permit Area. These activities occur in conjunction with the SCA permit site.

As discussed in other areas of the PAP, Sunnyside Coal Company's (SCC) refuse disposal area has been acquired by SCA to serve as a long-term supply of waste fuel for its coal mine waste-to-energy facility, located adjacent to the SCA Permit Area. SCA has contracted with SCC to provide alternative disposal for coal mine waste generated by SCC, both past and future. In order for SCA to acquire the quality and quantity of fuel for the cogeneration facility, coarse refuse is accepted from the SCC mine on a continual basis. The refuse is stockpiled in designated areas within the SCA permit site then mixed with existing refuse on the SCA permit site and transported to the cogeneration facility. These operations; acceptance of coarse refuse from the SCC mine and the transporting of coarse refuse to the cogeneration facility, requires access roads that extend beyond the limits of the SCA permit boundary. The main access for the transferring of coarse refuse from the SCC mine begins at the SCC mine and extends to the northeast side of the SCA Permit boundary. To transport coarse refuse from the SCA Permit Area to the cogeneration facility, the access road lies within the SCA permit boundary, with the exception of

approximately 300 feet that extends beyond the SCA Permit Area north of the boundary line near the cogeneration facility.

In addition to the access roads mentioned above, there are access roads to the south of the SCA permit boundary that are utilized for the purposes of the SCA operations. These roads are utilized to access areas of the SCA permit site that are inaccessible from the north side of the permit area. They are used by authorized contractors of SCA for the purposes of such activities as: water quality monitoring, periodic inspections, and site maintenance as needed.

Activities that occur outside the SCA Permit Area also include watersheds outside the permit area that drain into contained areas within the permit area. Chapter Seven of the PAP outlines these watersheds and the areas to which they drain. Also included are detailed maps and calculations showing the amount of water from each watershed and the capacity of the drainages and ponds that were constructed to contain them. In some instances, a drainage commencing within the SCA Permit Area may extend beyond the limits of the SCA permit boundary. An example of this is the outlet of the Pasture Sediment Pond. In such a case, SCA commits to maintaining this drainage and providing the necessary information to the Division to show its adequacy to handle the required storm event. In the event that this occurs elsewhere within the permit area, SCA will handle each instance on a case-by-case basis and notify the DOGM of any proposed changes to the PAP.

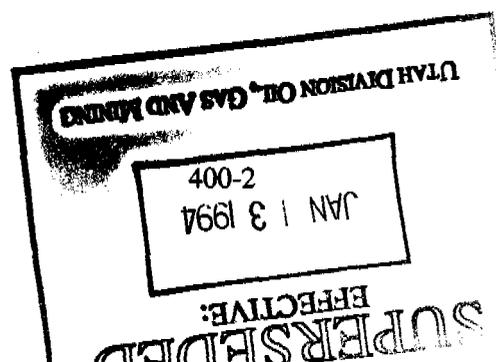
It should be noted that the SCA operations encompass a number of entities that do not necessarily lie or operate within the permitted area. The activities that occur outside of the permitted area are done so in a controlled manner, under permits from other agencies, and have been incorporated into the entire design and plan of the SCA Cogeneration facility. SCA understands the implications of utilizing entities outside of the permitted area and commits to maintaining the applicable areas in accordance with DOGM requirements.

This chapter includes descriptions of the premining and proposed postmining land use(s) in accordance with the applicable regulations. It should be noted that EWP Engineering has compiled and relied on data and maps from previously approved permits for the SCC mines. In this Permit Application where the "permit area" is referred to, the SCA Permit Area is to be assumed unless the larger overall area for the SCC mines is specifically referred to in the text as the "original SCC permit area."

411 ENVIRONMENTAL DESCRIPTION

Premining Land-Use Information

The land within the SCA Permit Area has been confined to fish and wildlife habitats. Historically, the land within the SCA Permit Area has not been used for croplands because of the mountainous terrain, steep slopes, and rocky surfaces. Farming in the surrounding area is limited to small areas on canyon bottoms. About four acres of alfalfa, irrigated with mine water, has been farmed in the past adjacent to the SCA Permit Area. Plate 4-1 outlines the boundaries of ownership of the areas within and adjacent to the SCA Permit Area.



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Premining land-use information is further outlined in the following sections. The descriptions include cultural and historic resources information, complete narratives of the land-use capabilities, and descriptions of the existing land uses and land-use classifications under local law as required by regulations R645-301-411.120 through R645-301-411.140.

Maps and Narratives Describing Existing Land Uses

The information on land status and land use has been obtained primarily from SCC's records and internal sources as well as from Carbon County records. Currently the site is mostly disturbed. The Disturbed Area Map, Plate 3-1, outlines pre and post-law disturbed areas within the SCA Permit Area.

Information on regional land use and socioeconomic considerations has been derived in part from the "Final Environment Statement, Development of Coal Resources in Central Utah" by the U.S. Geological Survey (1978) and from the Utah Office of Planning and Budget's Report "1990 Statistical Abstract of Utah" which covers quite fully the subject matter for the area of interest. It is assumed that the socioeconomic conditions of the area have not changed dramatically over the past decade and that the SCA activities will have much of the same impact as the SCC mines to the surrounding communities.

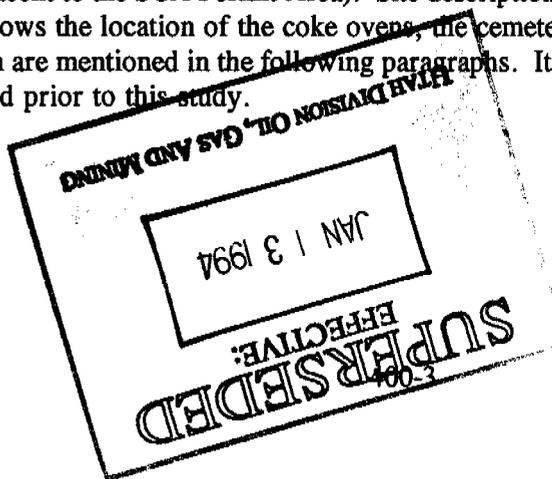
Land Use Narrative

Regionally, about 76% of the surface lands are Federal. Only a small part of the total acreage is irrigated farmland. Prime farmland has not been identified within the SCA Permit Area. Figure 2-1 is a current letter from the Soil Conservation Service stating that there is no prime or important farmland within or adjacent to the SCA Permit Area. The SCA Permit Area land use is dominated by a refuse pile. It is estimated that approximately 57% of the SCA Permit Area has been disturbed by mining operations. The disturbed areas contained mostly Pinyon-Juniper/Grass and Atriplex/Grass type vegetation.

The SCA cogeneration operations constitute a major factor in the local economy. The operations are of significant importance to the socioeconomic well being of the area. The "1990 Statistical Abstract of Utah" provides figures showing that mining accounts for 17.14% of all non-agricultural jobs and pays the highest of all non-agricultural fields in Carbon County. These figures are presented in Figure 4-2.

Cultural and Historic Resources Information

A cultural resource survey of the SCA Permit Area was completed by the Utah Historical Society Preservation Office Survey and Planning staff in the fall of 1993 (Appendix 4-3). There are two sites potentially eligible for nomination with the National Register within the SCA Permit Area and adjacent area: the coke ovens located on Site 42Cb325 (within the SCA Permit Area) and a cemetery located on Site 42Cb538 (adjacent to the SCA Permit Area). Site descriptions for each site are included in Appendix 4-1. Plate 4-2 shows the location of the coke ovens, the cemetery, and other sites adjacent to the SCA Permit Area which are mentioned in the following paragraphs. It should also be noted that no prehistoric sites were recorded prior to this study.



Located in Section 6, Township 15 South, Range 14 East are approximately 26 coke ovens remaining from the original 800. Coal from the mine was brought down by rail into the top of the coke ovens, and the oven was given a "charge" through a hole in the top. After 72 hours, the coked coal was removed from an opening on the side and loaded onto another rail car. These coke ovens are the only physical remains from the era when Sunnyside coke was used widely throughout the western United States for smelting.

The site containing the cemetery consists of a badly disturbed cemetery located in the approximate center of the SCA cogeneration power plant site. It is completely riddled with prairie dog holes and vandals have been quite active, tipping over headstones. An unknown number of graves are present. The few headstones present (ca. 20, including fragments) appear to be handmade out of a variety of substances (cement, wood, wrought iron). No complete death notices are present and most of the headstones are weathered beyond recognition. What few are partially readable appear to be Hispanic names with deaths during the first decade of this century. Several graves are enclosed by bedsteads and commercial wrought iron fencing material. SCA has erected a chain-link fence around the perimeter of the cemetery to protect it from disturbance.

There are two other sites that are listed as non-significant by the National Register and consequently, are not considered to be potentially eligible for registration as Historical Places. The first of these consists of a diffuse, non-patterned scatter of plus or minus 50 interior and secondary flakes and one possible biface fragment (Site 42Cb539) located above the head and north of Icelander Creek. The second site consists of an extensive distribution of burned coal slag and clinkers and domestic and industrial trash situated on a broad sage covered flat (Site 42Cb540). This site is located on the outskirts of East Carbon City.

Cultural and Historic Resources Sites

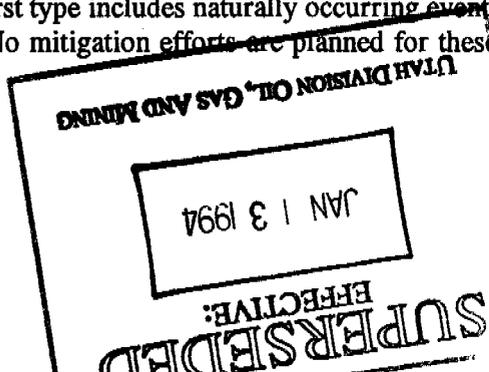
As stated previously, the only historic site within the SCA Permit Area is the coke ovens site which is located in Site 42Cb325. The coke ovens are located about 400 meters east of Sunnyside on the edge of the refuse pile (see Plate 4-2). At the present time, twenty-six of the ovens remain. Several have been destroyed in the north end to accommodate the expansion of the refuse pile. The ovens are beehive-shaped with level roofs for "charging". The door openings, which all face east, are large enough to walk into a cavern about 2.3 meters high and 3 meters in diameter. Varying amounts of vandalism has occurred to the ovens and they remain in uncertain states of stability.

Within the SCA Permit Area, there are no units of the National System of Trails or the Wild and Scenic Rivers System.

Projected Impacts and Preventative Measures to Cultural and Historical Resources

The identified sites have coexisted with the Sunnyside mines for over ninety years. All sites have been affected by past activities.

There are three potential types of impacts that could affect the cultural resources in the SCA Permit Area. The first type includes naturally occurring events such as erosion, flooding, fire, landslides, earthquakes, etc. No mitigation efforts are planned for these naturally occurring impacts.



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The second type of impact is vandalism. This occurs in the form of illegal excavations (relic hunting), destroying standing walls, defacing rock art or architecture with paint, target practice, etc., or illegally removing surface artifacts. Vandalism cannot be totally prevented, but can be curbed. SCA will be constantly on the alert for, and remove people from, the sites that are on the National Register. SCA has erected a chain-link fence around the cemetery to protect it from vandalism. SCA will also enclose the area surrounding the coke ovens with stakes and flags. See Plate 3-1 for the location of these markers. No construction activity will be permitted to occur within this marked area.

A third type of impact results from construction, gaining access to specific area (roads and trails), or any other human related ground disturbance. SCA will either avoid the National Register quality sites or undergo specific mitigation procedures prior to the impact of the site. At the present time, planned ground disturbance within the SCA Permit Area will not impact any known cultural resources.

Sensitivity Zones

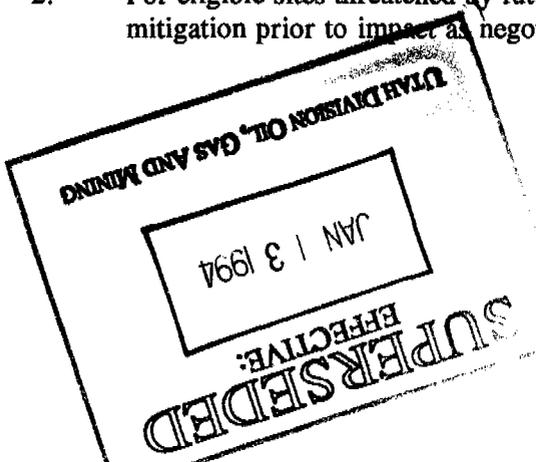
The application of predictive models to develop sensitivity maps for cultural resource management has been completed for the original SCC Permit Area. The long term purpose of such maps is to release some areas from further requirement under federal cultural resource laws while concentrating concern on high probability areas (Reed and Nickens 1980). The result of such an attempt for this project is shown on Plate 4-3.

Three zones are outlined on Plate 4-3. The zones are designated as "high", "medium", or "low". The high density areas are limited to the primary canyon bottom and the first or second contour (12 to 13 meters) above the canyon floor, plus the valley pediment. High sensitivity areas have deep soils, open sage parks, and are at least 30-40 meters wide. Site density is about 1.12 sites per square mile. Medium sensitivity areas are limited to high altitude (2280 meter a.s.l.) flat benches. Medium sensitivity areas average about .85 sites per square mile. The remaining area is classified as low density and includes the talus/cliff slopes and the narrow (30 meters or less) secondary canyons. Average site density are less than .10 sites per square mile.

The entire SCA Permit Area is located within a high sensitivity zone. The majority of the land surrounding the SCA Permit Area lies within low sensitivity zones with the exception of a few small areas that are characterized by high altitude flat benches, consequently lying in medium sensitivity zones.

Based on the existing data, the following future management programs will be implemented in order to preserve the land within the SCA Permit Area:

1. All sites listed as eligible for nomination to the National Register of Historic Places be protected from impacts by the SCA cogeneration project. As described earlier, the areas have been fenced or will be identified with stakes and flagging so that the areas are not disturbed.
2. For eligible sites threatened by future mining impacts, SCA will instigate a program of adequate mitigation prior to impact as negotiated with the State Historic Preservation Officer.



Previous Mining Activity

The SCA Permit Area has not, and will not be used for subsurface mining operations. The SCA Permit Area that is being addressed in this report is associated only with operations related to coal mine waste disposal and excavation.

Type of Mining Methods Used

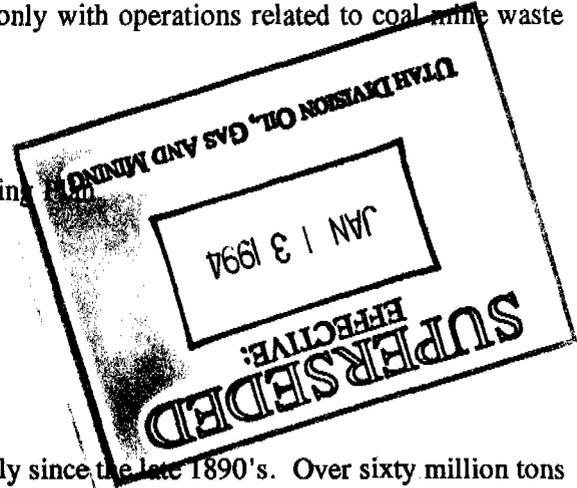
Details on remining can be found in Chapter Nine, Mining Plan.

Coal Seams or Other Mineral Strata Mined

Not applicable.

Approximate Dates of Past Mining

The original SCC permit area has been mined continuously since the late 1890's. Over sixty million tons of coal has been extracted during this period. Kaiser Steel Corporation leased the No. 2 Mine from Utah Fuel Company in 1942 to provide coking coal to the newly constructed steel mill at Fontana, California. In 1950, Kaiser Steel purchased the entire property. Recently, ownership has changed hands to SCC and a small portion, for which this Permit Application applies, is now owned by SCA. Plate 4-1 shows the boundaries and ownership of the areas surrounding the SCA Permit Area. It should be noted that there are no mines within the SCA Permit Area. All the mines lie within areas surrounding the SCA Permit Area and are run by operations set forth by SCC.



412 RECLAMATION PLAN

Postmining Land-Use Plan

Reclamation essentially commences with the first ton of coal mine waste removed and used as an alternative energy fuel. Practices will be limited to excavation and handling of coal mine waste to segregate non-combustibles and redisposing of such materials in a controlled manner. SCA's operating plan for its adjacent alternative energy power plant is designed to substantially reduce the final quantity of coal mine waste which will ultimately remain within the existing refuse disposal area. Reclamation will be a continuous process over the life of the power plant, ultimately grading, covering and revegetating any remaining non-combustible materials.

Details on contemporaneous reclamation can be found in Chapter Nine, Mining Plan. Chapter Ten, Reclamation Plan outlines components of the final reclamation plan.

The following sections outline the proposed use of the SCA Permit Area, capacity of the reclaimed land to support a variety of alternative uses, and the relationship of the proposed use to existing land-use policies and plans.

Existing land-use adjacent to the SCA Permit Area is primarily fish and wildlife habitat, limited grazing, and minimal cropland. The land-use picture has not changed significantly and is not expected to deviate in the future. Post project land use will be fish and wildlife habitat.

Soil Suitability

Several borrow areas have been identified for use as topsoil in future reclamation (Plate 5-1). A discussion of the suitability of the soils and their capability to support the post-mining land use is included in R645-301-231, section titled "Suitability of Topsoil Substitutes."

Control Measures to Mitigate Impact

Control measures to mitigate impacts on present land-use include steps to protect surface waters, soil resources, vegetation, and fish and wildlife. Additional information can be found in Chapter Two (Soils), Three (Biology), and Seven (Hydrology) which detail mitigation measures.

Regional Land Use

Regional land use has been fully discussed in the U.S. Geological Survey's "Final Environmental Statement, Development of Coal Resources in Central Utah, Part 1 - Regional Analysis" (1979).

In the seven-county region, Federal lands, including those of the National Forest and National Park systems, account for 76% of the land surface, while only about 7% was irrigated farm acreage. A current letter from the SCS states that there is no prime farmland within the original SCC permit area (see Figure 2-1).

The livestock industry, mostly cattle and sheep grazing, has been part of the region's historical economy. The timber industry has only a few small saw mills still operating mostly to supply fence posts, and lumber.

Land Owner or Surface Manager Comments

SCA owns the small portion of land (approximately 320 acres) containing the refuse pile and slurry ponds which comprise the SCA Permit Area. A letter from the owner is included in Figure 4-3. This letter contains comments from David Pearce, Vice President of Sunnyside Cogeneration Associates, as to the proposed post-mine land use.

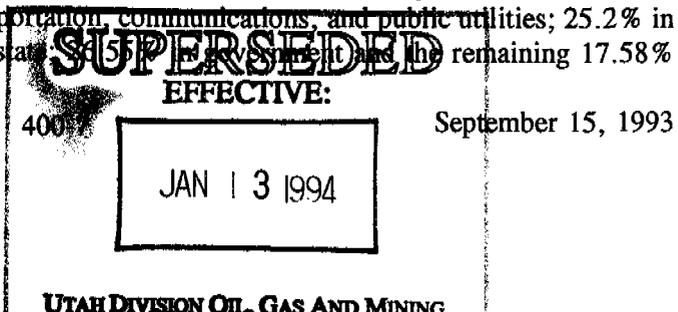
Mineral Ownership, Mines and Wells

Within the SCA Permit Area, there are not any operating mines nor are there any oil producing or gas wells.

Socioeconomic Considerations

Carbon County, with its low population density and isolation from Utah's urban centers, is historically an important coal-producing area in the State. The local economy is dependent upon conditions of the coal market.

Utah Department of Employment Security data indicates that in 1991, Carbon County had a total non-agricultural employment of 7,624 of which 4.03% were engaged in manufacturing; 17.14% in mining; 1.95% in contract construction; 5.72% in transportation, communications, and public utilities; 25.2% in trade; 1.82% in finance, insurance, and real estate; 15.5% in government and the remaining 17.58%



in service related fields. Statistics also show that in 1988, the average monthly payroll wages for mining in Carbon County were \$2,820.00 which are the highest of all the non-agricultural fields in Carbon County. This data is from the "1990 Statistical Abstract of Utah" and is included as Figure 4-2.

The SCA operations contribute a substantial share of employment, with the cogeneration operations and, indirectly, in other business. Its continued operation is of significant importance to the socioeconomic well being of the area.

Suitability and Compatibility

Land use during operation will continue to be as a fuel source for SCA's cogeneration facility and as a disposal site for SCC's slurry and coarse refuse. The effect of this operation on land use is minimal and is not expected to change during the permit period. Industrial waste from the SCA cogeneration facility will not be disposed of in the SCA Permit Area, therefore these operations should have a minimal effect on the SCA Permit Area.

The final grading will be suitable for reclamation and revegetation and will be compatible with the natural surroundings and the approved postmining land use.

413 PERFORMANCE STANDARDS

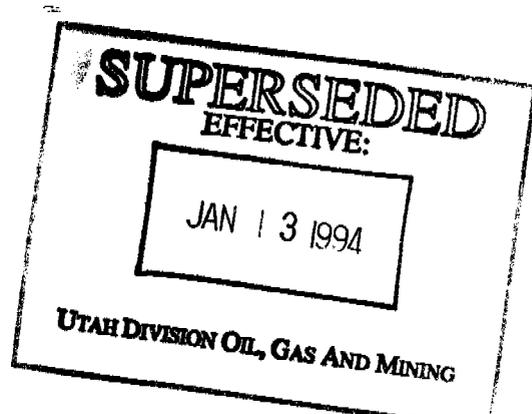
Postmining land use will be the same as premining land use. The reclamation activities following mining are designed to allow the area to revert to the type of activity that occurred prior to mining. All disturbed areas will be restored in a timely manner to conditions that are capable of supporting land uses or higher or better uses.

The coke ovens which are located on the Northeast corner of the SCA Permit Boundary will be deeded to the City of Sunnyside upon the completion of SCA's cogeneration activities.

The postmining land uses will be the same as the premining land uses. The postmining land uses will be practical and reasonable, they will be consistent with applicable land-use policies or plans and they will not cause or contribute to violation of federal, Utah, or local law.

414 ALTERNATIVE POSTMINING LAND-USE REQUEST

Not applicable.



420 AIR QUALITY

421 thru 423 AIR QUALITY PERMIT

SCA will continue its programs in the permit area to comply with the requirements of the Clean Air Act and other applicable air quality laws and regulations, as well as health and safety standards. SCA has not violated any air quality laws to date. A copy of the SCA's Air Quality Permit is included in Appendix 4-2.

A weather station is located at the Sunnyside Town Hall, but no air quality monitoring devices are currently in use. Air pollution sources come from fugitive dust from the coarse refuse stockpiles and unpaved roads.

424 FUGITIVE DUST CONTROL PLAN

Effects of Mining Operations on Air Quality

Most of the region around the SCA Permit Area has been designated a Class II area for purposes of determining any significant amounts of air quality deterioration. Deterioration of the air quality is not expected during the permit period with the exception of short high wind periods when sand and smaller grained particles will be picked up outside of the SCA Permit Area and added to the air in the permit area.

The haul road used by the refuse trucks is unpaved. To control fugitive dust, roads will be treated with calcium chloride, potassium chloride or sprayed with water as required during dry periods.

