DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4668

Application (Denied ✓
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓ Application and attachments
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 4 1957

DATE	INITIALS	CODE

March 1, 1957

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: New Application (~~Titanium-Iron~~-Zirconium-Garnet-Columbium-Hafnium-Tantalum-Staurolite-Platinum-Gold)
Columbia Titanium, Inc.
Chinook Deposit
Pacific County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of an application for DMEA assistance submitted by Columbia Titanium, Inc. of Tacoma, Washington.

This property is the same one that was the subject of various letters from Mr. Roth to President Truman and Senator Cain in 1951, and to this office in March and November of 1952, at which time the company was U. S. Metals Company.

Mr. Roth presents no exploration program. Apparently, he has a placer deposit that contains an appreciable amount of magnetite, and lesser amounts of several other minerals. The only minerals on the DMEA list are monazite, chromite, columbium, tantalum, and rutile. No evidence is given in the application to suggest that these commodities are present in commercial amounts.

By Field Team, Region I, NW Dist.

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Thomas E. Howard
for: Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
Geologist

P.S. In view of our previous extensive correspondence with Mr. Roth and the lack of significant amounts of minerals that qualify for DMEA participation, we recommend that the application be denied without a referral.

[illegible]

Gentlemen :-

[illegible] Attorney, [illegible] to testify [illegible] er Deposit of [illegible] leven [illegible].

[illegible] and have [illegible] finance.

[illegible] ication and hope [illegible] because of our [illegible] s Garner.

Thank you [illegible] in this matter.

[illegible]

[illegible] 12 [illegible] relative [illegible].

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
FEB 28 1957
U. S. G. S.
SPOKANE, WASH.

RECEIVED
MAR 4 1957
D.M.E.A.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4668
Metal or Mineral Rutile & Monazite
Date Received 3-4-57
Estimated Cost Not given
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: COLUMBIA TITANIUM, INC. (Formerly Columbia GOLD, Inc.)
8204 Maple St. SW.,
TACOMA 99, WASHINGTON
Corporation; State of Washington; Stanley A. Roth, President; Selmer Skreen, Sec'y.
Same Address, as above given.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract State Lands in Twn. 9 North, Range 10 W, W.M., Pacific County, Washington extending along the N. bank of the Columbia River between Megler and Chinook, abutting principally upon the South Boundaries of J. S. Scarboro D.L.C., & Washington Hall D.L.C. & that of P.J. McGowan D.L.C. (Sec.21&22).

(*b*) State any mine name by which the property is known. "CHINOOK DEPOSIT"

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise LESSEE
(Owner: State of Washington; Adm. by: State Land Commissioner).

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Stae Leases #'s: 6214, 6215, 6245, 6246

(*e*) If you own the land, describe any liens or encumbrances on it None.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. All pertinent datum in custody of Comm. of Pub. Lands, Olympia, Washington.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. * See attached sheet #1

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. "

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. " " "

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. " " "

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. " " "

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Titanium, Iron, Zirconium, Garnet, Columbium, Hafnium, Tantalum, Staurolite, Platinum, Iridium, Gold, etc. (*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Page 1, attached.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [X] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated 25 II 7, 195

COLUMBIA TITANIUM, INC.
(formerly Columbia Gold, Inc.)
(Applicant)

By [signature]
STANLEY A. ROTH
President.
8204 Maple St. SW,
Tacoma 99, Washington

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

COLUMBIA - TITANIUM, INC.
8204 Maple St. SW
Tacoma 99, Wash.
-Fone: LA 8560

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 4 1957

DATE	INITIALS	CODE

- CHINOOK DEPOSIT -

LOCATION: Mouth of Columbia River, North Bank.
150 Miles from Tacoma; on Hiway 101.

PHYSICAL CHARACTERISTICS:

No boulders, no coarse gravel; small amount pea gravel. 99% clean sand, about 60 mesh; 30% Magnetite - balance mostly Silica. Bedrock hard packed, - Magnetite & blue glacial clay, - varies from 16' to 23' in depth.

DIMENSIONS:
Length - 7 miles.
Width - ½ to 1½ miles
Depth (to false bedrock) 16' to 23'

AVERAGE VALUES:
Gold - $1.20 per Ton @ $35.00 per Troy Oz.
Silver - Heavy Traces to 1 oz. (.90¢ per Ton).
Copper - Trace
Iron - Magnetite (Converts to Hematite @ 1300° C.)
Titanium - 3.1 to 15.0% (U.S. Bureau of Mines Drill Tests #4011. & Wah Chang Corp. Assays).

Also carries: MONAZITE, RUTILE, ZIRCON, CHROMITE, GARNET, ILMENITE, STAUROLITE, COLUMBIUM, HAFNIUM & TANTALUM.

VOLUME:

30%	Magnetite	(Black Sand)	-	5800 lb. per cu yd.
70%	Silica	(White Sand)	-	3000 " " " "

Assay made by Pacific Car & Foundry (Prescott)

Magnetic Iron	-	61.40 %
Silica	-	1.20
Phosphorus	-	.35

*See attached copy of Analysis by U.S.Steel for similar results.

REMARKS: Note that the Phos. content is low (this also applies to Sulfur) and places this Ore in a very favorable category with respect to composition. It also contains a considerable quantity of Titanium which is magnetically separated from the Iron, - this being peculiar and rare to this material.

Idaho Bureau of Mines & Geology : Fire Assays of the sample of Black Sand gave results varying from 60¢ to 70¢ per Ton at the old price ($20.00 peroz.) of Gold*. Innumerable Assays showing Gold content to be on average of $1.20 per Ton (app. $3.00 per Yd) have been made. N.W. Testing Lab., Seattle Bennett's Lab.,Tacoma: Tacoma Assay Office (Jeklin); Montana Assay Office, Portland; Laux Test. Lab.,Seattleand many others.

National Lead Co. -	Assay:	TiO_2	- 3.1%	Fe	-	11.9% (Bank Run Sample)
Wah Chang Mng. Co. -	"	"	- 15.0	"	-	50.2; ZrO_2 - 0.14% "

NOTE: Depth samples to 140' as explored by Union Oil in well drilling should be conducted to establish fact that additional and perhaps higher values exist at greater depths.

A complete processing plant should extract and segregate ALL useful components and this is now possible with special equipment available and currently in actual operation by the DuPont Corp. at their big Florida installation.
We are attempting nothing new and hazardous; - sand processing is an established practicable and profitable Industry. In the N.W. we have cheap electricity, water & hiway transportation, 400-Million Tons of available Ore and a waiting market for the Pig Iron and the concentrated, commercial elements contained therein. The establishment of a Pig Iron Plant utilizing Magnetite should be the first step toward locating a large Titanium, Zirconium & Iron Plant & Rolling Mill in the Northwest.

C.O.P.Y.

COLUMBIA * GENEVA STEEL
Div. of U.S. Steel Corp.
S.F., Calif.

Report:
*(By S. G. Sargis
U.S. Steel).

To: J. K. Hayes, Supervisor Raw Materials

From: C. V. Rooney

Subject: Iron Ore

Following is the Analysis on a sample of Iron Ore submitted by Stanley A. Roth, Columbia Titanium Corporation, Tacoma 99, Wn.

11 - SR - 6 -1.

SiO_2	-	3.16
Fe	-	61.4
S	-	.016
P	-	.156
Mn	-	.36
Zn	-	.08
Ni	-	.03
Cu	-	.02
Pb	-	.01
Ti	-	.32

(Signed) C. V. ROONEY
Supervisor Chemical Laboratory

CVR:wn

DMEA Form 7
(12-56)

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Date	Surname	Code
4/1	Anderson	600
4/1	Houk	600
4/1	Selbridge	130
4	Johnson	110
4	Mittendorf	100
4/2		220
		225

600

APR 1- 1957

Columbia Titanium, Inc.
8204 Maple St., S. W.
Tacoma 99, Washington

Re: Docket No. DMEA-4668-Rutile,
Monazite, et al.
Columbia Titanium, Inc.
Chinook Deposit
Pacific County, Washington

Lamb
Kilsgaard

Gentlemen:

A careful study of your application for aid in an exploration project does not reveal that your property has sufficient promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program to warrant Government participation in its exploration.

In your letter of February 2, 1957, submitting your application, you state that "Only the problem of financial assistance to establish a commercial plant remains". The Defense Minerals Exploration Administration does not provide financial assistance for this purpose. Many of the minerals you list in your application are not eligible for exploration assistance. In addition, there is no evidence in your application to support the probability of finding those minerals listed in your application that are eligible for exploration in sufficient quantity and grade to be of importance economically or for National Defense. Under the circumstances, I regret to advise that your application for aid in an exploration project is denied.

I wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf
Administrator

WCAnderson:gad 3/25/57
Rewritten FEJohnson:gad 4/1/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region I NW
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/25	Anderson	600
3/26	Houk	600
3/29	Selfridge	130
		110
		100
		220

600

Columbia Titanium, Inc.
8204 Maple St., S. W.
Tacoma 99, Washington

Re: Docket No. DMEA-4668-Rutile,
Monazite, et al.
Columbia Titanium, Inc.
Chinook Deposit
Pacific County, Washington

Kiilsgaard
Bishop

Gentlemen:

Your application for aid for an exploration project relating to the subject property has been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant reserves of strategic materials by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

Administrator

WCAnderson:gad 3/25/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region I NW
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Memorandum March 25, 1957

To: Mr. C. O. Mittendorf, Administrator

From: L. G. Houk, Chief, Nonmetallic Minerals Division

Subject: Evaluation of application - Docket No. DMEA-4668-Rutile, Monazite, et al.
Columbia Titanium, Inc.
Chinook Deposit
Pacific County, Washington

Denial of application is recommended.

Deposit: Placer, 7 miles long by 1/2 to 1½ miles wide by 16 to 23 feet deep, located along north bank of Columbia River.

Minerals: An appreciable amount of magnetite and lesser amounts of other minerals. Of the minerals on the DMEA list (monazite, chromite, columbium, tantalum, and rutile) no analysis is given in the application. The Field Team letter states that there is a lack of significant amounts of these minerals.

Applicant's proposal: States that his "only problem is financial assistance to establish a commercial plant". No request for exploration assistance. Amount of financial assistance not stated in application.

Recommendations: By the Field Team: Without a referral or field examination they recommend denial of the application based on previous extensive correspondence with the applicant and the lack of significant amounts of minerals that qualify for DMEA participation.

By the commodity members:

Bureau of Mines: Denial, since this is not a request for exploration assistance but for money to build a processing plant.

Geological Survey: Suggests that the applicant is satisfied that no further exploratory work is required and presumes the Field Team has sufficient information on which to base their recommendation and, therefore, concurs in denial of application.

By the Nonmetallic Minerals Division:
Apparently the applicant requests assistance for activities which are not within the scope of DMEA authority, as construction of a processing plant and development of a placer deposit containing principally iron ore and no significant amounts of strategic minerals. Therefore, concur in Field Team's recommendation to deny the application.

W. C. Anderson
Nonmetallic Minerals Division

Supplement to Evaluation of Application DMEA-4668-Rutile.
Information from Bureau of Mines, RI 4011

The McGowan Deposit is located about 4,000 yards southeast from the subject property (Chinook) both on the north bank of the Columbia River. The Hammond Deposit is located directly across the river from the McGowan Deposit. All three of these deposits are magnetite-bearing sands and similar.

A. Type sample from the Hammond Sands:
   1. Chemical analysis: Fe 33.3% TiO_2 10.2%
   2. Microscopic determination by grain count:

Magnetite	40%
Hornblende	16%
Ilmenite	19%
Quartz-Feldspar	15%
Garnet	7%

Zircon, rutile, biotite and olivine 3%

B. Type sample from the McGowan Sands:
   1. Chemical analysis: Fe 44.66% TiO_2 14.84%

2. Microscopic determination by grain count:

Magnetite	53%
Ilmenite	18%
Quartz	14%
Garnet	13%
Zircon	1%
Feldspar-Mica	1%

Random drilling at the Chinook (subject property) was unsuccessful in locating other magnetite-bearing sand deposits.

From June to August, 1944, the Bureau of Mines Completed 186 hand-augur holes in the Columbia River area. Of these, 113 holes with a combined length of 1,450 feet were completed in the Hammond area in Clatsop County, Oregon; 48 holes with a combined length of 390 feet were in the McGowan area in Pacific County, Washington. Random drilling of 25 holes for a total of 184 feet was done in the Chinook, Baker Bay, and Sand Island areas, Pacific County, Washington.

W. C. Anderson

W. C. Anderson
Nonmetallic Minerals Division

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DATE	INITIALS	CODE
3/20	C	220
3/21	WM	600

March 19, 1957

4668
Rutile and Monazite
Columbia Titanium, Inc.
Chinook Deposit
Mouth of Columbia River, Wash.
Not given

Lawrence Houk, Defense Minerals Exploration Administrator

Jesse A. Miller, Commodity Specialist, Branch of Light Metals D.G.C.

Application

2/25/57 3/8/57

X

X

No X

No X

X

Costs X

X

In the applicant's covering letter he states that: "Only the problem of financial assistance to establish a commercial plant remains";

therefore, this is not a request for exploration assistance, but for money to build a processing plant. The applicant does not state the relative abundance of rutile or monazite in the deposit.

Jesse A. Miller

Jesse A. Miller

Attachment

Copy to: FILES
Division of Minerals
Mr. Lamb, Room 3608
J. A. Miller

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 19 1957

DATE	INITIALS	CODE
3/20	C	220
3/21	wra	600

March 18, 1957

Re: DMEA 4668
Columbia Titanium Co.
Chinook deposit
Pacific Co., Wash
No estimate. Titanium, etc.

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant requests financial assistance in establishing a commercial plant for recovering the various worthwhile minerals of a black sand deposit.

Apparently the applicant is satisfied that no further exploratory work is required. The Field Team appears to be less certain, an opinion based on previous experience with a predecessor company.

The Field Team recommends that the application be denied without referral. I presume the information available to the Field Team supports the recommendation. I have no information, but assume the opinion is valid and concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

March 5, 1957

Columbia Titanium, Inc.
8204 Maple St. S. W.
Tacoma, Washington

Subject: DMEA-4668

Gentlemen:

Your application for exploration assistance, dated February 25, 1957 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-4668 and referred to the Non Metallics Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region I N. W.

6416