QUEENSLAND.

ESTABLISHMENT OF DIRECT TELEGRAPHIC COMMUNICATION BETWEEN AUSTRALIA AND GREAT BRITAIN (VIÀ UNITED STATES OR CANADA).

(CORRESPONDENCE RESPECTING)

Presented to both Houses of Parliament by Command.

1.)

THE SECRETARY TO THE AGENT-GENERAL to THE UNDER COLONIAL SECRETARY.

London, 5th April, 1886.

SIB,

I have the honour, by direction, to hand you herewith, for the information of the Colonial
Socretary, a copy of a letter from the Colonial Office respecting the proposed establishment of a Telegraph
Line between the United States and Australia, having its American terminus at San Francisco, together
with a copy of Mr. Carrick's replic

I have, &c., CHAS. S. DICKEN.

[Enclosure 1 in 1.]

THE COLONIAL OFFICE to THE AGENT-GENERAL.

Downing street, 30th March, 1886.

SIE.

I am directed by Earl Granville to acquaint you that His Lordship has been informed that proposals have lately been made in the United States, by gentlemen connected with the Australian Colonies, for the establishment of a Telegraph Line between the United States and Australia, having its American terminus at San Francisco.

I am to inquire whether you are in possession of any information respecting this scheme, and

whether it possesses the support of your Government.

In view of the completion of the Canadian Pacific Railway, it would seem to deserve consideration whether such a cable, if constructed, might not more advantageously have its terminus in British Columbia.

I have, &c., JOHN BRAMSTON.

[Enclosure 2 in 1.]

THE AGENT-GENERAL to THE COLONIAL OFFICE.

London, 3rd April, 1886.

Sin,

I have the honour to acknowledge the receipt of Mr. Bramston's letter of the 30th ultimo, respecting the proposed establishment of a Telegraph Line between the United States and Australia, having its American terminus at San Francisco, and to system I am not in possession of any information in regard to the scheme referred to, nor of the views of my Government respecting it. I concer in the opinion expressed in the last paragraphy of the letter, that, in view of the completion of the Canadian Faddic Railway, it would be desirable to consider whether such a cable, it constructed, might not make the contraction of the contractio

I have, &c., JAMES F. GARRICK.

(2.) THE SECRETARY TO THE AGENT-GENERAL to THE UNDER COLONIAL SECRETARY. London, 6th August, 1886.

SIR,

Secretary, a copy of correspondence from the office of the High Commissioner for Canada, respecting the Secretary, a copy of correspondence from the office of the High Commissioner for Canada, respecting the setablishment of direct Telegraphic Communication between Australia, New Zealand, Canada, and Great setablishment of direct Telegraphic Communication between Australia, New Zealand, Canada, and Great Setablishment of direct Telegraphic Communication between Australia, New Zealand, Canada, and Great Setablishment of direct Telegraphic Communication between Australia, New Zealand, Canada, and Great Setablishment of direct Telegraphic Communication between Australia Communication Setablishment of the Commissioner for Canada, respecting the Canada, respective the Canada, respec Britain, together with a copy of the documents relating to the scheme, and a copy of the Canadian Gazette of the 29th July containing a report of an interview on the matter with Mr. Sandford Fleming.

Genetic of the 29th July contaming a report of an interview on the matter with Mr. Sandrord Finning, and the promoters of the scheme. To Sir Charles Tuppes of the 19th July, contained in the Printed Documents, I am to say that, as the meeting of the Agents-General held on the 18th July, nething was und as to the distribution of the annual subsidy, otherwise Sir Junes Garrick would have taken exception to such an apportionment as that mentioned in the 18th referred to. At this meeting nothing was determined as to the place of Inding the cable, or as to whether it should go it of New Zealand or viá Fiji.

T have, etc.,

CHAS. S. DICKEN.

[Enclosure 1 in 2.]

THE HIGH COMMISSIONER FOR CANADA to THE AGENT-GENERAL. London, 28th July, 1886.

With reference to our recent meeting respecting the establishment of direct Telegraphic Communication between Canada and Australasis, I now beg to send you, as arranged, some letters and memorandae containing a definite proposal prepared by Mr. Sandford Heiming and the other gentlemen

who undertook to go thoroughly into the question.

I shall be glad if you will be so good as to bring the subject before your Government at your convenience, and I venture to hope that they will give you such instructions as will enable us to take some further steps towards bringing about so desirable an object.

I have, &c., CHARLES TUPPER.

Printed documents referred to.

ORDER IN COUNCIL IN REFERENCE TO THE ESTABLISHMENT OF TELEGRAPHIC CONNECTION BETWEEN THE AUSTRALIAN COLONIES, CANADA, AND GREAT BRITAIN.

Privy Council, Canada.

Ottawa, 10th June, 1886.

SIE, By direction of the Right Honourable the President of the Council, I forward you a copy of an Order in Council, dated the 8th June, 1886, with respect to the subject of the proposed establishment of Telegraphic Communication by cable from the Australian Colonies, for your action and co-operation as therein expressed.

I have, &c., JOHN J. MoGEE, The Hon. Sir Charles Tupper, G.C.M.G., C.B., Clerk, Privy Council.

High Commissioner for Canada, 9, Victoria Chambers, London, S.W.

(2.) CANADA.

CERTIFIED COPY OF A REPORT OF A COMMITTEE OF THE HONOURABLE THE PRIVY COUNCIL, APPROVED BY HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL ON THE STH JUNE, 1886.

On a memorandum dated 22nd May, 1886, from the Minister of Public Works, submitting a communication from the High Commissioner for Canada in London, enclosing a copy of a circular addressed by the Colonial Office to the Agents-General of the Australian Colonies, on the subject of the proposed establishment of Telegraphic Communication by cable from those Colonies to San Francisco. last paragraph of which is as follows :-

"In view of the completion of the Canadian Pacific Railway, it would seem to deserve consideration "whether such a cable, if constructed, might not more advantageously have its terminus in British Columbia." The Minister represents that several communications have been received from Mr. Sandford Fleming, C.B., setting forth the scheme of a Company, represented by him, to connect either Queensland or Now Zealand with Vancouver, B.C., by way of Fiji and Hawaii, by which it appears that the estimated control of the control of this Gable would exceed £2,000,000 (sey \$10,000,000), and that as it is the intention of the Company to very greatly reduce the rates at present ruling for telegraphic measages between Rughand and Australia, the Company would require assistance from the different Governments interested, in the shape of a subsidy, which is roughly estimated at about £70,000 per annum for a period of about twentry wars. Mr. Fleming

Fleming represents that the Governments interested in the project are Canada, Great Britain, India, Victoria, New South Wales, New Zealand, South Australia, Queensland, Tasmania, Wostern Australia, Hawaii, and Fliji, and states that advances here already been made towards some of the Agents of the Australian Colonies, with a view to having the terminus of the proposed cable in British Columbia instead of San Francisco, which have been favourably received. Mr. Fleming suggests that as Canada is greatly interested in establishing direct telegraphic communication with Australia, India, and the Bast, it would be advisable that this Government should take the initiative in the matter, and invite a conference of the Agents of the Colonies interested to discuss the subject.

The Minister, agreeing with the suggestions made as to the advantages likely to accrue to Canada from the establishment of direct cable communication between British Columbia and the East, and that it would be advisable that this Government should take the initiative in the matter, recommends that it would be advisable that this Government should take the mittative in the litter, recomments usual advantage be taken of the Colonia and Indias Exhibit co-bridge in the Colonia internal and Indias Exhibit co-bridge in expression of opinion on the project, and that the High Commissioner for Canada be requested to invite a conference of the Agenta-General of all the Colonia interested, and aspectation how their respective Governments would be disposed to act in the matter, and what amount of assistance they would be prepared to give; also, that the High Commissioner should ascertain from the Imperial authorities what assistance might be expected from them on behalf of the United Kingdom and India, and that the High Commissioner report the result of his inquiries as speedily as possible.

The Committee concur in the report of the Minister of Public Works, and the recommendations therein made, and submit the same for Your Excellency's approval.

The Committee further recommend that the High Commissioner be instructed to put himself in

communication with the Secretary of State for the Colonies, and endeavour to secure the co-operation of Her Majesty's Government on the subject. (Signed) JOHN J. McGEE,

Clerk, Privy Council.

(3.)

DIRECT TELEGRAPHIC COMMUNICATION BETWEEN AUSTRALIA, CANADA, AND GREAT BRITAIN. Batt's Hotel, Dover street, London,

10th July, 1886. Sir Charles Tupper, G.C.M.G., C.B., High Commissioner for Canada.

Having learned that the Canadian Government has instructed you to confer with the representatives in London of the other Governments interested in the projected Telegraph Communication

between Australia and the United Kingdom, by what may be termed the Canadian route, I beg leave to submit the accompanying documents bearing on this important question. I desire to direct your attention more particularly to the enclosed memorandum, of date, London,

In this document I have ventured to explain the views I have formed with respect to the projected Telegraphic Communication, and the principles upon which a company may be organised for

projector desgrapsic Voliminication, son use principles upon small a company or some sequence.

Laws consulted a number of capitalists, a well as experts in ocean telegraphy, and have quite astistied myself that with a very moderate Government subsidy, a substantial company can be formed to establish and work the new line of telegraph on the principles laid down in that menorandum.

The whole capital of the Company, to complete an independent telegraphic connection between Great Britain, Canada, New Zealand, and the Australian Colonies, may be placed at £2,500,000.

This capital may be driedd into two parts—rise, £1,600,000 to be an low rate of interest, secured for twenty-five years by Government subsidies; £1,000,000 to be share capital, apportioned between

Australian, Canadian, and English capitalists.

The capital will be ample for the whole undertaking. With regard to the Restoration Sinking Fund, I have consulted some of the best experts on ocean tolegraphy on the general question, and I learn that opinions are rapidly changing with respect to the life of modern cables. The first cables laid may be considered to have been to a large extent experimental, and advantage may now be taken of the very large experience gained.

It is found that in ordinary cases the breakages are apt to take place within a comparatively few

It is nound that in ordinary cases the breakages are apt to take place within a comparatively few after the calles are laid, and that once properly repaired faults are not likely to recur, and the comparative faults are not likely to recur, and the comparative faults are not likely to recur, and the comparative faults are not likely to recur, and the comparative fault for the comparative fault for the comparative fault fau

and to grainsaid.

We are aiming to establish a work which will result in all future years in a great saving to each
Colony. It is suggested that each Colony, in proportion to the saving effected, should set saids a small
portion of the money so saved to keep the work which effects the economy, in an efficient condition. For

every hundred pounds saved, ten pounds, or perhaps eventually five pounds or less, is proposed to be funded to cover possible contingencies. With regard to the probable carnings for revenue purposes, it will be seen, on reference to the memorandum of 6th April, that the foreign business of the Australian Colonies for the year 1889 is estimated to be \$5,000 messages, or about \$50,000 words. It is not to be expected that the whole traffic will come to the new line, for the existing telegraph company will undoubtedly reduce its charges in

order to retain a share of the business.

Let us assume that the business will be equally divided, and that the new Company will only have aligh of the 880,000 words; this will give 425,000 words, and we may reskon this business at four shillings per word, as the terms made with the Canada Pacific Railway Company will admit of "through" messages being sent at that rate.

Equal to 4b per cent, on £1,000,000. This estimate is for the first year the line can be in operation. On careful examination it will be seen that the estimate is an exceedingly moderate one, no allowance having been made for the great impulse which will undoubtedly be given to telegraphy and general business by the large reduction in charges.

There cannot be a doubt that the earnings will go on greatly increasing, while the working expenses will increase but little. It would not be at all a high estimate to double the net earnings in a very few years. This would give 9 per cent. on the whole share capital, and it may be assumed as certain

that the increase would continue year by year.

I have explained that a subsidy is needed for the purpose of securing a million and a half of pounds at a low rate of interest. If the Government subsidies he sufficient to provide a sixing fund to pay off, the £1,000,000 in twenty-five years, it would be proper to carry all excesses of revenue over a

pay off the £1,500,000 in twenty-fire years, it would be proper to carry all excesses of revenue over a given dividend, say over 7 or 8 per cent, to the Restoration Sinking Fund.

It will be noted, as one of the proposed conditions, that not only will the charges on messages be

reduced to the fine the same of the proposed accounts to the control of the same of the sa

company—more wrone pour mas some to maintain mgn rases in order to because sarge provise.

"One provided in the prime of the should have little weight in view of the great Imperial and colonial advantage of the companies to adopt will be to lower charges on messages and derive profile from the greatly augmented business which will certainly follow:

The terms and conditions which I have indicated would undoubtedly command the organization of a substantial and emergetic company to carry out this new and important undertaking in the most satis-

satisfaction and energetic company to carry out this new and important undertaking in the most sate factory manner.

I have, etc.,

SANDRORD FLEMING.

(4.)

TELEGRAPH BETWEEN AUSTRALIA, CANADA, AND GREAT BRITAIN.

Memorandum by Sandford Fleming.

- 1. It is proposed that a Company be formed for the purpose of establishing Talegraphic Communication between Australasia and Great Britain by a new and independent line. This new telegraph is projected to traverse lands and seas beyond the control of any Power likely to prove heatile to the British Empire.
- 2. It is proposed that a chain of electric cables be laid across the Pacific Ocean, to connect the Australian group of colonies with Vancouver, the western terminus of the Canadian Pacific Railway. The cables to land at such intermediate islands as may be found suitable for mid-stations.
- 3. Arrangements have already been made with the Canadian Pacific Railway Company for the transmission of all through telegraph business between the Pacific and Atlantic Oceans on extremely favourable terms.
- 4. It is proposed to acquire complete control of one of the existing Atlantic cables landing on the shores of Canada, or to lay a new cable from Canada to Great Britain.
 - 5. The whole line may be divided into three great Sections, viz. :-
- Referring to the recont great reduction in charges between Lendon and New York, the Report of the Director of the Direct United States Chable Company for the six mendies ending 20th June last states: "So far the reduction has revealed, in more than doubling the velume of fressio, and the Directors are not without hope that with a revival of tract is may be still proven that the province of the state of the provent, since the rate were reduced.
- 4 Since the date of this letter the Reports of the Associated Atlantic Cable Companies for the past half-year have been published. They generally favour this row policy. The low tarff introduced has resulted in a very much larger sugmentation of mild than we associated as a first result. "The mercrysted increase in the voteme of traffic immediated as a first result." The mercrysted increase in the voteme of traffic immediately specified to consider the experiency of adopting permanently a specific property of the superior of the control of the control of the control to encourage a row plan profits of low rates. As 2rd. Consense.

(A.) THE PACIFIC SECTION.

This section will consist mainly of electric cables, the lengths of which after allowing for slack will approximately be as follow:-

(1)	Brisbane or Sydney to North Cape, connecting at the former	
	with the Australian telegraph system, at the latter with the tele-	
	graph system of New Zealand	1,300
(2)	North Cane to one of the Fiji Islands	1.240
	Fiji to Fanning Island	2.270
241	Fanning Island to one of the Sandwich Islands	1.260
25	Sandwich Island to Barclay Sound or Port San Juan, Vancouver	2,000
(0)	Y-1	2.730
cos	Barclay Sound, across Vancouver Island and the Strait of	2,100
(6)	Barelay Sound, across vancouver island and the Strate of	
	Georgia to Vancouver City, the terminus of the Canadian Pacific	

Geographical miles 8,900

(B.) THE CANADIAN SECTION.

This section will extend along the Canadian Pacific Railway and the Intercolonial Railway to connect with an Atlantic cable. If it

Railway

be found necessary to lay a new Atlantic cable the land line will probably terminate at Gaspé, in the province of Quebec. Distance from Vancouver to Gaspé Statute miles ... 3,450

(C.) THE ATLANTIC SECTION.

A new Atlantic cable from Gaspé viá the Straits of Belle Isle to

Treland Geographical miles ... 2,450

6. These three great sections connected, and the business under one management, it will be possible to reduce permanently the charges on messages to the lowest practicable rates, and thus render the line of the greatest commercial utility. It is helieved that the reduction in rates contemplated, and rendered possible by the satisfactory terms agreed upon with the Canadian Pacific Nailway Company will give a great imprets to telegraphy and promote the development of interestonial interconress and

commerce.

7. The arrangements proposed, and the terms agreed upon, will admit of messages being sent from Australia to Great Britain on the opening of the new line at less than half—eventually, it is believed,

at one-third—the charge at present cancled.

8. While the new line, dashbished as set forth, will stimulate connected activity between the countries to be consected, its political, naval, and military rules will we uperpease hidded. It is well considered to be consected, the political, naval, and military rules will we uperpease hidded. It is well considered to the permanency of communications by way of the Modiferranean and the Red Sea, and it becomes obvious that the lime through Canada may, during any emergency, assume incalculable importance. The cable across the Pacific will always be removed from the theater of European complications. It will not only be a direct ensures of constant and the second of the second of the constant of the cable and the second of the constant of the cable and the second of the constant of the cable and the second of the cable and the cabl

connection with London.

9. To secure advantages so great—and it is difficult to say whether in a commercial, political, naval, or military aspect the advantages would be greatest—Government aid and co-operation is necessary; but as there are twelve Covernments more or less interested in the undertaking, moderate assistance.

from each will suffice.

10. The following Governments are interested in the new line of Telegraph:—

 The Government of Great Britain. Canada. 3. Hawaii. Fiji. New Zealand New South Wales. 6. Queensland. ** Victoria. 9. South Australia. 10. Western Australia. 11. Tasmania. India.

earnings.

Of these Hawki has effered twenty thousand dollars a year (say £4,000) for fifteen years to be connected telegraphically with San Fruncisco, and it may be assumed that that subsidy will be available to the proposed Company. The principal assistance, however, will require to be furnished by Grant Britain and her Colonies.

1. It is proposed that Government aid should be directed to two main objects, viz.:—(1) To secure the establishment of the cables across the Pacific Ocean; (2) To provide for their permanent efficiency.

The first main object—the establishment of the cables across the Pacific—can be effected if the

Government assistance takes the form of an annual subsidy sufficient in amount to pay a low rate of interest and provide for amortization on a large portion of the capital required for this section of the undertaking. The remaining capital may be share capital, and will have to depend for dividends on

12. The perpetual efficiency of the cables can be maintained in another way. It has been customary to make provision for this purpose out of earnings, but this course necessarily has a tendency to make protested for this purpose one of earning, use this course indexistily has a weather rates to a minimum, and minority to the earning the protested of t small percentage of the savingeso effected would provide for renewing, duplicating, and maintaining the cables in perpetual efficiency. It is proposed, therefore, that a Restoration Fund be provided from this source. Taking as a basis for computation the difference between present charges and the reduced charges, probably 5 per cent. or less will eventually be found sufficient; but it is suggested that at first cauges, prounty o per cent. or rest win eventually to found annually be funded for the purpose set forth.

If after a period of ten or more years it be found that less funded annually be funded for the purpose set forth.

If after a period of ten or more years it be found that less fund to per cent. will effect the desired purpose, as amile precentage of the average may be carried to the Restoration Fund. The object in view is to provide sufficient, but no more than sufficient, to restor the cables whenever they may become unserviceable, and to maintain the line of communication in the highest condition of efficiency for the business to be transacted.

18. These provisions assented to, it will be possible, immediately on the cables being laid, to adopt a scale of charges for ordinary messages between the Australian Colonies and Great Britain of four shillings per word, Press messages at half or considerably lower rates. It is proposed that Government messages be transmitted free of charge to the full amount of the subsidy, and to take precedence of all other business.

Batt's Hotel, Dover street, London, 1st July, 1886.

(5.)

(Appended to letter dated London, 10th July, 1886.) CANADIAN AND AUSTRALIAN CABLE.

MEMOBANDUM SUBMITTED TO THE CANADIAN GOVERNMENT BY SANDFORD FLEMING.

Ottawa, 6th April, 1886. A few years back attention was directed by the undersigned to the importance and practicability of connecting Great Britain telegraphically with China, India, Japan, and the Australian Colonies, by a line passing through Canada, and by one or more cables laid in the Pacific Ocean.

The subject was reverted to last year in a letter dated 20th October, 1885, addressed to the

Premier, the Right Honourable Sir John A. Macdonald.

Since these dates the Canadian Pacific Railway Company has completed a line of telegraph from the Atlantic to the Pacific, thus establishing an important section of the original scheme, leaving to be

1882

...

completed only the cable across the Pacific. The Australian Colonies are already connected telegraphically with England by way of Port Darwin, Singapore, Penang, Madras, Bombay, Aden, Alexandria, and through the Mediterranean Sea. The

Letwin, ongeprore, results, sucress, somindy, adeh, Austraiaria, and streogra the acciterancean cost, and political events assume a threatening still find in Figure 1. The political events assume a threatening stilling a line play of in Bosone. Acade from the Australian Colonies, ref. Fiji and the Sandwich Lindas to Vancouver, the western terminus of the Casadian Fuedic Railway, would connect them telegraphically with Ragland by a line which would have the great advantage to every British interest of being entirely removed from all Buroquean complications. Moreover, a very large aggregate saming in the cost of transmission would

be effected. The Australian Colonies were first connected with England in November, 1872, consequently the following year (1872) was the first great the International line was in operation. The business in 1873 consisted of 5,852 messages to and from the Colonie. The last externa are for 1885, when the messages ent and received reached 48,869; showing an extraordinary development in eleven years, averaging an annual increase of 40 per cent. This increase may, however, be absormal, and as the last three years of the period show a more moderate growth, it will be agt to take the latter as a basis on which to estimate future business.

The number and cost of messages between the Australian Colonies and Europe, for the three years referred to, was as follows :-No. of Mess 39,175 £225.567

1888 43,334 251,277 1884 48.896 270,766 These results give a fair indication of the steady growth of the business under the present high

tariff. The annual increase in the number of messages is equal to 12½ per cent., and the average cost of each message sent during the three years—1882, 1883, and 1884—is £5 13s. 9d.; the charge of ordinary messages per word (between Sydney and London) being ten shillings and tenpence, Government messages eight shillings, and Press messages six shillings and sevenpence.

The undersigned has brought the question of a cable from Vancouver to Australia before the Board of Directors of the Canadian Pacific Railway, and has succeeded in effecting arrangements of a most satisfactory character. This Company will, within a few weeks, have telegraphic connections with all the principal points in the United States, including all the important cities on the Pacific Coast, and will be able to transmit messages on such terms as will enable the Pacific Cable Company to secure practically the entire business between the Continent of America and the Australian Colonies.

cable

cable leading from Port Darwin, in the direction of India, will, moreover, enable the new company to

cable leading from fort. Darwin, in the direction of india, but, moncover, theore are lier cuspans, we command a very large share, if not all, of the business between Americs and Jack Saliway Company to It will be practicable under these arrangements with the Canadian Pacific National Company to transmit measures between the Australian Colonies and England at considerably less than one-balf, cossibly at one-third, the present charges, and between the Colonies and all the important cities in the

United States and Canada at one-quarter the rates now enacted.

It is proposed, immediately on the Pacific cable being laid, to lower the charges on ordinanessages between Australia and England from ten shillings and tempence to four shillings per word This reduction will bring the cost of an average message from £5 13s. 9d. down to £2, and without And reduction win orang time cose of an average increasing from \$2 1.08, 20, down to \$2.5, and winnout doubt will give a very great importus to telegraph business. It is not easy to estimate with any approach to accuracy what increase would result from this cause—men of experience in such matters are of opinion that the business would probably be doubled; but even if we limit our expectations to its opinion that the cusiness would probably be doubled; but even it we must our expectations to me ascertained normal growth, and base our calculations on a steady increase of traffic of only 124 per

assertation horms: growth, and nose our concustors on a steamy increase or traine or only 1.4g per cent per namum, we shall see that the advantage of the new line to the Colonies will be immense. The latest returns with 12g per cent, per annum added give 85,000 messages for 1898. Assuming that the new cable would then be laid and the Camadian route in operation throughout, the estimate for a series of years would be as follows:-

No. of Messages, based on an annual growth of 185 per cont. So, or 22 13s, 96, and 23, or 22 13s, 95, per Message.

1889	 					85,000		£318,400
1890	 					95,000		350,275
1891	 					107.000		392,550
1892	 					119,000		438,800
1893	 				200	133,000		490,420
1894	 	5				148,000		542,050
1895	 ***		***	***		166,000		612,125
1896						186,000		685,875
1897	 ***	***			***	208,000		767,000
1898	 100					234,000		862,000
						montoco	***	002,000

... 1,481,000 £5,456,497

It will thus be seen that, without taking into account any additional increase in the number of messages which the great reduction in charges would undenbtedly produce, a very great saving would be effected in the Australian business. If the estimate be well founded it would amount to £5,456,409.

within the first ten years, being an average saving of over half-a-million pounds per annum.

The new line when established will form a connection through South Australia with Port Darwin. and thence by existing telegraph lines with Asia and Africa. It is obvious, therefore, that it possesses and science by examing tengraph lines with Asia and Africa. It is obvious, therefore, that it possesses as peculiar interest to the Imperial Government, as it will afford the means of communicating not only with the Australian Colonies independently of lines passing through the Mediterranean, but also with India and every British station between Hong Kong and South Africa.

Canada has already done much towards establishing the new line of telegraph between Great Britain, Australia, and Asia. She has, by an enormous expenditure in connection with her national railway, brought Vancouver within telegraphic reach of England, and she has thus rendered it a comparatively easy task to complete the whole connection. It has cost in all about £40,000,000 of public and private money to establish the railway and its adjunct the telegraph by which Vancouver has attained the commanding position which it occupies in respect to the Pacific Cable scheme. The Pacific Cable is, however, in some degree a corollary to the line across the Continent, and it is reasonable to 1. The Government of Great Britain,

expect that the Canadian Government will readily co-operate in its establishment. The following Governments are more or less interested in the undertaking :-

> Canada 3. Hawaii. 4. Fiji. 5. New Zealand. New South Wales. Queensland. Victoria. South Australia. 10. Western Australia. Tasmania. India.

It will not be possible to carry out the undertaking by a private company without Government assistance. As electric cables are penshable, provision must be made for renewing or duplicating them when circumstances require it. It is also obvious that the reduced charges which are proposed will require a greatly increased business to yield a sufficient profit to meet dividends on capital. The company would, therefore, require a subsidy for a term of years, or until the business increased to such a volume as to render the line self-sustaining. But as the subsidy would be borne by so many Governments it would fall lightly on each

The first step to be taken is to ascertain to what extent the several Governments would be disposed to co-operate in establishing the work.

(Appended to Letter dated London, 10th July, 1886.)

TELEGRAPH FROM CANADA TO AUSTRALIA. LETTER to The Premier of Canada by Sandford Fleming.

Ottawa, 20th October, 1885.

The Right Hon. Sir John A. Macdonald.

Str.

I had the bosour a few years back to submit to the Canadiau Government a scheme for forming a great Intercolomial and Intercontinental Telegraph system, a prominent feature of which was the large of an electric cable across the Pacific Ocean, from the Western Coast of British Columba to Asia. The great object which the acheme had in view was the establishment of an unbroken chain of delegraphic communication between England and Japan, China, India, Australia, New Zeshand, and South Africa, directly through Canada, thus connecting telegraphically all the great British possessions in every quarter of the globe without passing through British.

in every quarter of the globe without passing through Europe.

The accompanying memorandum, dated London 20th November, 1 882, together with the don-ments submitted by the Scentary of State to the Cunsdian Parliament on the 20th February of the same year, will recall to your recollection the important public objects which the scheme had it wives, and the efforts then made to carry it out. You are aware that through various causes these efforts proved musucoesful; but the time which had elapsed has in now ay isseased the importance of the project, or

rendered it more difficult of accomplishment.

The political certal which have so frequently assumed a threatening attitude in Europe, the
difficulties which are nove entirely absent in Egypt, point to the constant danger of interruption to
of telegraph removed from all Eastern complications. The projected line, ottending from England
through Canada to the Pacific coast, in the Province of British Columbia, and thence across the Pacific
to Asia and the Australian Provinces, wend supply an independent line of communication so much
desired, and in so doing would indirectly, but it is held very materially, strengthen the military and hard
colonial possessions, while it would directly promote the lighten intensity, strengthen the military and hard

colonial possessions.

Within the present year an overland line of telegraph will be completed along the route of the
Canadian Pacific Railway, thus spanning the American Continent, and there are a number of electric achies in operation across that Alantic from England to Canadia. The property of the control of the Canadian across the Alantic from England to Canadia. The property of the control of the Canadian across the Alantic from England to Canadian across the Pacific Cocean.

British Columbia. There only remains to be established the submarine telegraph across the Pacific Cocean.

Venue the accompanying purposendum was issued, it was thought that the Ruific cable should follow a northern runte by the Alestian Islands and Japan. It was generally believed that in the great central area of the Picific Ocean subsequeous rocky ledges and coral reefs prevailed to such an extent as to render the establishment and maintenance of an electric cache punctually impossible. That opinion was based on an imperfect knowledge of the physical character of the Pacific Ocean, and on the charts, which at one time were stream with slands, reefs, and shools, amony of which were inserted on doubtful authority, and have consequently been omitted from the latest publications. Since then, also, it may be taken that it may not be abdoulted processary to follow a northern route, and that the successful establishment of an electric cable running directly from British Columbia to the Australian Provinces may be quite within the range of practicability.

The state of the s

Whatever route be followed by the cable across the Panific, the object will be to bring the group of Austraian Colonies into direct telegraphic connection with Canada, and sceure a means of communication between them and Bogland independent of all lines passing through or in protimity to Europe. Messages will be conveyed by the new line at lower rates than are now exacted, and the imministrate effect which must follow its establishment is manifest. The cost of telegraphing between Australia and most commercial activity. But be facilitated between the active colonies and Canada, and an impulse given to commercial activity.

Apart altogether from the political advantages of the new independent telegraphic connection, the gain to the general commerce of the Colonies which it would serve would justify them in co-operating

with Ganaki in promoting the undertaking.

The undertaking may be promoted by the several Governments agreeing to give for a term of years a subsidy sufficient to induce a company to embark in it. The subsidy may be a fixed sum, contributed in equitable proportions, or it may be dependent on the business transacted by each respective.

Colony, and on the reduction in rates which would follow immediately on the line going futo operation.
It is quite obvious that the gross foreign telegraphic business of any one Colony, reckoned at the
difference between the present high rates and the reduced charges, would produce a considerable
aggregate sum. That sum night be taken to represent the year's sarings accruing to the Colony from

the establishment of the new line of telegraph and it would obviously well repay that Colony to share the amount so saved with the Telegraph Company. Suppose the accrued saving so reckoned in any one year to be fifty thousand pounds, a moiety to the Company as a subsidy would be twenty-fire thousand

pounds, while the Colory itself would gain a direct poundary benefit from the undertaking to a like actent. The illustration as presented will explain the principle on which a subsidy may be based. Among the British possessions in the Southern Hemisphere directly interested in the work are Fig. Tamania, New Zealand, Western Autralia, Queenland, New South Wales, South Australia, and Victoris. I venture to think that their co-operation with Canada in the manner set forth would, without difficulty and with no great delay, secure to them and to the whole British colonial system all the political

and commercial advantages to result from the projected line of communication.

As the contemplated work is of special importance to the mother country and all her Colonies, I trust I may be allowed to entertain the hope that you will be pleased to bring the subject under the notice of the respective Governments.

I have, etc., SANDFORD FLEMING.

Telegraph Between Australasia, Canada, and Great Britain.

London, 19th July, 1886.

The Honourable Sir Charles Tupper, G.C.M.G., C.B., High Commissioner for Canada, London.

The undersigned, who were present at the meeting of the Agents-General on the 12th instant, having been requested by you to ascertain the amount of subsidy which would be necessary to enable a company to connect England telegraphically with Australia through Canada and the Pacific Ocean, have the honour to state-

We have considered the whole question, and are of opinion that a substantial company can be formed to establish an efficient telegraph connection on the route proposed for a total annual subsidy of £100,000 for twenty-five years.

The subsidy may be apportioned as follows, i.e.:-

1.	Great Britain, on behalf	of	the	United	Kingdom,	India,	and
	the Crown Colonies					***	***
0	Canada						

	Queensland		 ***	***	 	***	 10,000
	New South	Wales	 	***	 		 10,000
5.	Victoria		 		 		 10,000

6. New Zealand, Tasmania, and Western Australia 10,000

£100.000

£50.000 10,000

Or should the Imperial Government, by an arrangement with the Colonial Governments, itself guarantee the whole amount, the total subsidy may be considerably reduced, as the Imperial guarantee would enable the company to find capital at a lower rate of interest. With such guarantee a total subsidy of £90,000 for twenty-five years would suffice, and thus reduce the annual contributions.

The subsidy mentioned is calculated to pay interest on borrowed capital, and provide a sinking

fund for its repayment in twenty-five years.

As the company would transmit all the messages of the various contributing Governments free, and the rates chargeable to the public for "through" messages would not be more than one-half the present regular tariff charges, Great Britain and the colonies would save a much greater sum than the amount of subsidies above proposed.

If the several Governments agree to pay over to the Company a percentage of the gross savings which would thus be effected by each country, the company could still further reduce the charges to the public. We have, etc.,

DONALD A. SMITH RANDOLPH C. WANT ANDREW ROBERTSON MATTHEW GRAY SANDFORD FLEMING.

[Enclosure 2 in 2.]

HIGH COMMISSIONER FOR CANADA to THE AGENT-GENERAL.

London, 31st July, 1886.

With reference to my letter of the 28th instant on the subject of the proposed Telegraphic Communication between Canada and Australasia, I think I had better give you some particular respecting the status of the gentlemen who prepared the letter addressed to me on the 18th July, containing a proposal for submission to the Imperial and Colonial Governments. They are as follows — Sir Donald A. Smith, K.O.M.G., Director of the Canadian Facilie Railway Company and

Hudson's Bay Company;

Mr. Randolph C. Want, Solicitor in London for the New South Wales Government; Mr. Andrew Robertson, Chairman of the Board of Harbour Commissioners, Montreal; Mr. Matthew Gray, Manager of the India Rubber, Gutta Percha, and Telegraphic Works

Mr. Anasters (187) and Company;
Mr. Sandford Fleming, C.M.G., C.B., Director of the Canadian Pacific Railway Company, and late Chief Engineer of the Intercolonial Railway and Canadian Pacific Railway.

The part of the control of the contr the hearty co-operation of the various Colonies concerned and of the Mother Country and India.

I have, &c.,

CHARLES TUPPER.

P.S.—I also enclose you a copy of this week's Canadian Gazette, containing, on Reg. 337, an account of an interview which a representative of that journal has had with Mr. Sandford Fleming on the subject of the proposed Cable.

[Extracts from Canadian Gazette of July 29, 1886, referred to.]

TELEGRAPHIC COMMUNICATION WITH AUSTRALSAIA.

LEADER. We publish in another column an interview with Mr. Sandford Fleming in regard to the establishment of direct telegraphic communication between Australia, New Scaland, Canada, and Great Britain. The project is by no meens a new one. In the last decade cables were from time to time projected to connect America and Asia by a direct route. Years passed, considerable expense was incurred, and in 1880, while the telegraph had extended easterly across Europe and Asia, and westerly across the Atlantic, the Pacific remained untraversed. Its central ocean bed was declared to be rockn and unsuitable, and under such declarations the proposals withered and lost substance. The pro-ecution of the Canadian Pacific Railway sufficed to bring the question once more to the fore, and from that time to this sight has never been lost of the necessity of a Pacific cable as a corollary to the operation of the national railway and to the opening up of direct telegraphic communication between England and the Pacific coast of Canada. The peculiar importance of Canada's position fully justifies all that Mr. Pleming has said. A glance at the map of the globe establishes the fact that the Dominion occupies. situation directly central to the masses of population in Europe on the one hand, and Asia and Australasis on the other. It is, nineed, the natural route by which to complete an unbroken chain of electric telegraphs between Great Britain and her dependencies in every section of the globe. Canada, all parts of the Australian continents, New Zealand, the whole Indina Empire, China and all Eastern possessions, and South Africa may by its means be as one, entirely independent of those existing lines which pass through foreign countries; the cable would, indeed, be a British line of communication, through nothing but British territory. Surely it will be a short-sighted policy if no advantage is taken of this position. No one doubts the great inconvenience and ever possible danger of the present means of cable communication between England and these various parts of the Empire. Were anyone sceptical, no greater evidence could be wished than that afforded by the various wars and operations Britain has carried on of late in the Soudan. For a portion of one season, during which hostilities were in progress, a complete interruption results. For a polyton of the season, curing when no status were in log-ress, as complete interruption graphed to post and the least. So serious an aspect did the incident present to the mind of General Wolseley that he publicly expressed his conviction, that to depend on the existing telegraphic steemas in voices; same are pluminy expressed his conviction, man to depend on the existing beliegraphic system as a means of communication with our Eastern possessions must be in the last degree suicidal. Lord Wolseley realises, indeed, that what happened once may happen again at very short notice, and with the most dire results. The world has yet to reach that high stage of critisation when bostile feelings and actions will form no part of national life. Until that stage is reached—if reached it error will be—it is obviously to the highest decrea manier, to deliberately above the engine of the "Continual Visit has the continual Visit has the co The second is the second in the second in the second in the second is the second it is second in the second in the

For Canada and Australasia the project has also particular importance, second only to that of the mother-country. We spoke recently of the possible development of an interchange of trade between the Dominion and the Antipodes, following upon the direct steamship connection of British Columbia with Sydney. To the accomplishment of this purpose a direct telegraph is at least as necessary as a direct steamship line; the one is incomplete without the other. Investigations happily show the project to be no such serious financial undertaking as might formerly have been supposed, while the bed of the Central and Southern Pacific is to all appearances as well suited to form the cable bed as is the North Atlantic itself. Ordinary mercantile telegraphic business has not, however, been found as yet su'ficient, Atlatini teati. Ordinary increasities elegispaine coainese sias ion, noverely, ocen rousia as yet in the city as all circuits at the coulest, to alone stimulate commercial interprise. Hence, subsidies may fairly be saked from the British and Colonial Governments interested. The demands will, however, be in no sense of sufficient magnitude to hisder the project. Of the whole distance, Canada has already provided 3,850 statute miles, from Atlantic to Pacific, and in completing the Atlantic and Pacific links so many countries are some or less virilary interested as to render the absard of each a comparatively anall matter. Bearing these facts in mind, it is not surely too much to expect that, now the project is assuming distinct and practical shape, every encouragement will be given by one and all to secure its early and complete

consummation.

INTERVIEW WITH MR. SANDFORD FLEMING.

on our last issue we drew attention to the mission of Mr. Sandford Floming to this country in conceins with the proposed cable in form Canada to Australias. It will be remembered that, according to the conceins of the proposed cable in form Canada to Australias. It will be remembered that, according Government authorising Sir Charles Tupper, as High Commissioner for Casada in Ragland, to confer with the Agenth-General for Australias in regard to this subject. In accordance with these instructions, a meeting of the Agenth-General took place at the office of the High Commissioner, when the representation of the Agenth-General took place at the office of the High Commissioner, when the representation of the Agenth-General took place at the office of the High Commissioner, when the representation of the Agenth-General took place is the office of the High Commissioner, when the representation of the Agenth-General took place is the Agenth-General took place in the Agenth-General took place is the Agenth-General took place in the Agenth-General took place is the Agenth-General took place in the Agenth-General took place is the Agenth-General took place in the Agenth-General took place is the Agenth-General took place in the Agenth-General t In our last issue we drew attention to the mission of Mr. Sandford Fleming to this country in established its perfect practicability and its great advantages to Canada and the British Empire. He has since confirmed and widened his convictions, as will be seen from the following interview he has been kind enough to afford to a representative of the Canadian Gazette.

"It is understood, Mr. Fleming, that in view of the completion of the Canadian Pacific Railway

As understood, are resuming that in wise of the completion of the Canadian Pacific Railway and telegraphic system, you have made a proposition to the Canadian Government on the subject of direct communication by telegraph with Australasia?"

"Yes," said Mr. Floming, "I have submitted numerous communications to the Canadian Government on the subject, and in every way in my power I have promoted the establishment of the understanding the communication of the canadian Government on the subject, and in every way in my power I have promoted the establishment of the understanding the canadian communication of the subject and in every way in my power I have promoted the establishment of the understanding the canadian control of the canadian Contro

"Has any company been formed?"

"No, none has been formed as yet. There will, however, be no difficulty in forming a company if the various Governments will co-operate and render moderate assistance. The purpose of such a company would be to establish telegraphic communication between the Australasian Colonies and Great Britain by a new and independent line through Canada. The electric cable would be laid across the Pacific Ogean to connect Brisbane or Sydney and New Zealand with Vancouver, the western terminus of the Canadian Pacific Railway."

"May I ask what route the cable is destined to take ?" "The whole line would be divided into three great sections, as follows, allowance being made for - slack :--

	(a) The Pacific Section.	Knots
(1)	Brisbane or Sydney to North Cape, connecting at the former with the	ie e
	Australian telegraph system, at the latter with the telegraph system	m
		1,800
		1,240
(3)	Fiii to Fanning Island	2,270
(4)		1,260
(5)	Sandwich Island to Barclay Sound or Port San Juan, Vancouver Island .	2,730
(6)	Barclay Sound, across Vancouver Island and the Strait of Georgia	to
	Vancouver City, the terminus of the Canadian Pacific Railway	100
	Geographical miles	8,900
	(b) The Canadian Section.	

This section will extend along the Canadian Pacific Railway and the Intercolonial Railway to connect with an Atlantic cable. If it be found necessary to lay a new Atlantic cable, the land line will probably terminate at Gaspé, in the province of Quebec. Distance from Vancouver to Gaspé-

Statute miles ... 3,450 (c) The Atlantic Section. A new Atlantic cable (if necessary) from Gaspé viá the Straits of Belle Isle

to Ireland-... 2,450 Geographical miles ...

"You would, then, Mr. Fleming, utilise the present Canadian Pacific telegraph line?"
"Most certainly. By its means an overland line and telegraph is now complete across the

Canadian continent. Arrangements have, moreover, been made with the Canadian Pacific Railway.

Company for the transmission of all through telegraph business between the Pacific and the Atlantic Oceans on attremely favourable terms."

You would also, I notice, Mr. Fleming, apparently select the Sandwich Islands route rather than

that of the Aleutian Islands and Japan." "Well, it was formerly thought that the Pacific cable should follow the northern route by the

Alcutian Islands, and it was then generally believed that in the great central area of the Pacific Ocean subaquous rock-ledges and coral reefs prevailed to such an extent as to render the establishment and maintenance of an electric cable practically impossible. Now, however, automarine telegraphy is better understood, and the most authentic hydrographic information establishes the fact that the extensive coral understood, and the most authentic hydrographic information establishes the fact that the extinsive corrects in the Contral and Southern Pacific are generally in great groups, separated by with earl depressions free from Atlanticulus and the properties of the second properties of the properties of connecting Canada and Australia by a direct cable. The course of the cable would be from Vancouver to the Piji Ilandas, bouching at the Sandwich Ilanda and the Fanning Ilandas. From the Fiji Islands cable connection would be formed with the existing Australasian and New Zealand telegraphic stations, and thence with the lines to India and every British station between Hong-Kong and South Africa.

"What do you calculate, Mr. Fleming, would be the prospect of business by this proposed direct cable ?"

cable?" In the first instance, it must be remembered that many of the Colonial Governments are more or less interested in the undertaking, and we should hope to obtain a considerable subsidy from them. A certain portion of this subsidy must be borne by forcal Bristian, no bladf of the United Kingdom, India, and the Crown Colonies, and the remaining portion by Canada, New South Wales, Victoria, Ne Decamal, 148manis, and western Austrans. Area we are zone to form some estudence arous one operators by the present route to Austrains. The business of 1878, which was the first year in which the International line was in operation, consisted of 8,022 messages to and from the Colonies. By the last returns—those for 1884—the messages sent and received reached 48,896. This is an extraordinary development in eleven years. But even taking the safer, figures of the average of the last three years, we find an an energy years. Dut even stanging easter in gipres of the average of the last three years, we find an increase in the number of messages equal to 12; per cent, per annum, and the average cest of each message, £5 13s. M. On this basis of increase, the messages in the year 1850 would be 85,000, or about \$60,000 words, or which it may be assumed that the new company would transmit half, or \$25,000 words. For a billings per word for ordinary messages is the contemplated rate inmediately on the operation of the line, as the terms made with the Casantian Pacific Railway will admit of through messages being sent at that rate. Four hundred and twenty-five thousand words at 4s. yields £85,000. Deducting the cost of working and land service, say £40,000, we get a balance of £45,000 for the first year in which the line of working and into service, say sections, we get a manife of Estandard for the hars year in wince use must \$25 \text{ 18.9 0.4} (the local rate), and \$2 \text{ (the new)}\$, \$2.3 \text{ 18.9 0.4} (the measure—amounts, within the first ten \$70 \text{ 25.7 18.9 0.4} (the local rate), and \$2.3 \text{ (the new)}\$ is \$2.3 \text{ 8.9 0.4} (the measure—amounts, within the first ten \$70 \text{ 75.7 25.7 18.9} (the local rate) and \$1.3 \text{ 18.9 0.4} (the measure—amounts, within the first ten \$70 \text{ 18.9 0.4} (the local rate) and \$1.3 \text{ 18.9 0.4} (the measure—amounts, within the first ten \$1.3 \text{ 18.9 0.4} (the local rate) and \$1.3 \text{ 18.9 0.4} (t show for the great implies which will another the great to desgraphic and general values of such large reduction in charges, for the present rate is as much as 10s. 10d. per word between Sydney and London for ordinary messages, 8s. per word for Government messages, and 6s. 6d. per word for Press

"But quite apart from the commercial aspect, Mr. Fleming, you anticipate, I suppose, that the new cable will have some political and commercial importance?"

"Unquestionably. The political, naval, and military value of the new line will be very great

indeed Naval and military commanders will tell you that no reliance can be placed upon the permanency of the communications by the Mediterranean and the Red Sea, and it becomes obvious that the line each of the communication between the desired frameworks are not seen as the same to excount the same to examine the same to excount the same that the s the permanent efficiency of the cables when established."

(3.)

THE SECRETARY to THE AGENT-GENERAL TO THE UNDER COLONIAL SECRETARY.

London, 7th September, 1886.

I have the honour, by direction, to transmit enclosed herewith for the information of the Chief Secretary, a copy of a letter received from the Secretary to the High Commissioner for Canada, relative to the proposed establishment of telegraphic communication between Canada and Australia and forwarding a map* showing the proposed line of telegraph, and a copy of a letter received by the High Commissioner from the Secretary of State for the Colombia store.

I have, etc.,

CHAS. S. DICKEN.

[Enclosure 1 in 3.]

THE SECRETARY TO THE HIGH COMMISSIONER FOR CANADA to THE AGENT-GENERAL. Office of the High Commissioner for Canada. 9 Victoria Chambers, London, S.W.,

31st August, 1886.

SIR.

With reference to previous correspondence respecting the establishment of telegraphic communication between Cauada and Australia, I have the honour, in the absence of the High Commissioner, to transmit to you herewith a copy of a map showing the proposed line of telegraph, which you may like to forward to your Government.

I also beg to enclose, for your information, a copy of a letter received from the Colonial Office, in which it is stated that the Secretary of State for the Colonies is sensible of the great interest and importance of the proposal, and that it will receive careful attention, but that he thinks it will be necessary to await an expression of the views of the Colonial and Indian Governments before any decision on the scheme can be taken by Her Majesty's Government.

I have, &c.,

JOS. E. COLMER.

[Sub. Ruclasure to Englasure in 3.]

THE COLORIAL OFFICE to THE HIGH COMMISSIONER FOR CANADA.

Downing street, 18th August, 1886.

Stp

I am directed by the Secretary of State for the Colonies to acknowledge the receipt of your letter of the 29th ultimo, with its enclosure, respecting the proposed establishment of telegraphic communication between Canada and Australia.

13

I am to state in reply that Mr. Stanhope is sensible of the great interest and importance of the proposal, and that it will receive careful attention; but that he thinks it will be necessary to await an expression of the views of the Colonial and Indian Governments before any decision on the scheme can be taken by the Maister's Government.

I am, etc., R. H. MEADE.

Price, 1s.7