Run 57

INTEROFFICE MEMORANDUM

Date: 28-Dec-198

28-Dec-1988 05:43pm GMT

From:

Hermann BINDER @GEO

BINDER AT AMISA1@EHQMR1@GEO

Dept:

EDUCATIONAL SERVICES

Tel No:

893-3111 X227

(BARLOW AT AMISA1@EHQMR1@GEO)

el No: 893-3111 X227

TO: David BARLOW @GEO TO: PAT CATALDO @BUO

CC: PIER CARLO FALOTTI @GEO

Subject: Quarterly Report for ES

1. Business

This is and will be the main focus area for the reminder of the year. As Q2 actual are not available I will give more general comments, however I believe we will have a strong Q2 which will help to improve the situation. The positive side is that ytd we grow the customer business over 20 percent the manpower by 10 percent. The main problem areas are:

Country	Margin	Comments
	impact	
Germany	-3.9M\$	Lower business, no related expense reduction. Competition. A review scheduled for January.
Norway	-450K\$	General Business situation, new mgr does his best.
Finland	-250k\$	Manager was taken out, new one interviewed chances are to recover some.
Sweden	-220k\$	New focus put on again, chances are good to recover all.
UK	+1.3M\$	Strong demand for business, need more staff to deliver.
Italy	+370K\$	Strong Business
All Ctry.	-1.5M\$	Net negative currency impact, this means they manage to their local currency goal but can not compensate for the \$ impact.

All other countries are within a few percent of their goals and they are all able to make it.

The net impact of the revenue transfer reduction from .6% of MLP to .5% for Q3 and Q4 will have another negative impact on the margin as we recognize the revenue immediately but have delivery commitments over

the next 12 months. For this year the delivery will not go down but the revenue transfer. With the January forecast the countries will be able to reflect it. It a very positive sign that the service content will remain in the systems price.

ACTIONS: Any new hiring needs my approval, Germany has proposed an action plan, local review to take place. Sweden has plan to recover and Finland is being reviewed by the FS Manager. All other countries are asked to improve performance. A major focus is put on the sale of PLO2 Products (Self study material) as we have received corporate approval to receive material at cost. Thank you, Pat! This is a step in the right direction and the increase of volume will make it a win situation for all of us.

2. Internal Training

After a weak start in O1, DECWORLD had an effect our training volume is about 10 percent higher.

- The Network University in Paris was attended by 400

- The OLTP University has 20 persons registered and the first phase of the nine months program was a full success. It was a good mix of technical and skills content and managed by DECollege in the UK.
- 700 Specialists were trained in Europe on Workstations by

a traveling instructor.

- AI, 5 week program in Munich, successful outcome
- Corporate SWS and FS Training have accepted our Networks Training Curriculum and support development.

3. DECTOP

We put focus on this program and for the first time we produced a single plan, stating which training is offered for which function. This plan was received very positive by Marketing and other functions. Customer Training has a set of very relevant CBI courses for our worksttations which I would like to see bundled. The MLP is 400\$, if we could receive 200\$ from Systems Business all would win, including the customer. To sell these packages individually is very difficult and the users may not get the raining they need. I take up the action.

4. Open Learning Centers (OLC's)

The activity increase is substantial and the demand for this type of learning exceeds our capacity. Germany is opening 10 new centers. The IVIS courses are booked out for weeks. The DVN tapes which we get within a week to the learning centers are successful only in some locations where local moderation is arranged. In these cases they are really appreciated. More work needs to be done. Similar with PACE, thanks to our OLC's we are the most successful company to use. Again people have to get used to this kind of learning. We have completed our ES-FOM document for implementation, it is being published. The remaining issue is that we strongly believe that the Regional ES Manager should be part of the regional team. This is not accepted and we need to see how it gets resolved. With the criteria of an ES Region and the manager not part of the team weakens the regional efficiency.

Once we had the FOM defined it became evident to define the HQ role, this has been done and will be published in Q3.

6. External Events.

Participated and gave several presentations at the 1. European Conference on Continuing Education in Stuttgart. The trend to form collaborations between the public education sector (Univ. and Polytechnics) and Industry is increasing. Some Professors are leading and it is up to us to work with them. Others still have no motivation to find out what industry needs. Participated at the final day of an INSEAD course. Became elected to the new INSEAD Advisory Board, this is a 40 person body which has an annual meeting at INSEAD to give direction and advise to them. First meeting is planned in May 89. We extended our teaching contract with IMEDE, they buy in turn DEC HW.

7. People

Had to take action with the Finish ES Manager, the people in ES became very unhappy with his style of management. An outplacement process has started. I am interviewing an internal candidate today.

MEMORANDUM INTEROFFICE

Date:

21-Dec-1988 00:55am GMT

From:

RUSS GULLOTTI @NPO

GULLOTTI AT A1 at WOODRO at M

Dept:

CSS ADMIN.

Tel No:

264-6209

PAT CATALDO @OGO TO:

KO

Subject: European Staffing Plan

Herman wants to hire sixty-eight permanent people during Q3 and another twenty-five in Q4. When you approve these hiring plans, do you go into the mix of direct labor and indirect labor people? Given all of his expense problems, I would wonder why he would hire anybody in the indirect category.

Is the data that he submitted to you sufficient for you to approve the plan? If you want me to be the approver, I would require much more data from him because I don't understand what's behind the request. you want to approve it, that's your call of course. I will wait to hear from you before I respond to Herman.

morning under

Date: From:

21-Dec-1988 01:00am GMT RUSS GULLOTTI @NPO

GULLOTTI AT A1 at WOODRO at M

Dept: Tel No: CSS ADMIN. 264-6209

603) 673 -8303

TO: PAT CATALDO @OGO

Subject: Staff Meeting Minutes

Pat,

You will get to read the staff meeting minutes from the December 19th ESMC, but I would like to give you some of the key thoughts about what I thought went on.

The discussion on the CD ROM was amazing to hear. The staff was spinning. I ended up telling people what I would do if I were running Ed Services. My opinion is that you take \$175K in funding from others and use it to keep the project going. It's also my opinion that you do not use the \$175K from others to offset the \$300K that you have already sunk into the project. That would be unfair to the people who are funding you because it implies that the project will stop. Further, I absolutely do not support a program announcement in January. The project is really poorly defined, has no product manager, and has no commitment to volumes nor does it have a selling method. One thought would be to involve the R&D Group further in this effort. If things proceed well with the \$175K for the rest of this year then you could decide whether or not you want to fund it again in FY90. John McClean was of the opinion that you would disagree with my conclusion and that you wanted to stop the project and use the funding that you have just received to offset your own expenses to date. I would disagree with that.

The Maritz Company came in to discuss motivational programs. It was good exposure and I am delighted that you are examining such programs. However, I do not support the Maritz's proposal for a Digital Group. I have been involved in suggestion programs before; they don't work well.

Jim Melanson's operational review was superb. His group is very professional. They were well prepared and did a good job of articulating the charter of their organizations. I am not quite sure what you intend to get out of these operations reviews, but I learned a great deal about the organization just by listening.

You should be aware that your staff is quite frustrated about the fact that they have had several strategic issues on their plate for years that have no resolutions. I think probably that the group expects you to lead them in the resolution of some of these strategic

agree

KO

Notely

gren

file when he was to lead them in the re

Var

problems. You and I can discuss this more, but I did want to talk to you about it in case you hear anything about it from any of your staff members.

I'll talk to you more about the meeting after the holidays. In the meantime Pat, Merry Christmas and Happy New Year.

Date:

22-Dec-1988 08:44pm EST Patrick A. Cataldo

From:

CATALDO.PAT AT a1 at CECV01 a

t BUO

Dept:

Educational Services

Tel No:

249-4200

RUSS GULLOTTI @NPO TO: TO: PAT CATALDO @OGO

Subject: ES BUSINESS - EUROPE

Date:

22-Dec-1988 11:28am EST

From:

Hermann BINDER @GEO BINDER AT AMISA1@EHQMR1@GEO

EDUCATIONAL SERVICES

Dept: Tel No:

893-3111 X227

TO: PAT CATALDO @BUO

JOHN MCLEAN @BUO CC:

Werner OPPLIGER @GEO CC:

(OPPLIGER AT AMISA1@EHQMR1@GEO)

Subject: ES Europe, Business Situation

This is the status of the ES Business in Europe and the actions we decided to take as a result of the meeting with Werner Oppliger.

1. Key numbers on performance:

M\$

Revenue: Corporate BOD 113.0 113.1 December forecast

ACM (\$):

BOD:

38.2

NOVEMBER TARGET: December forecast:

39.1 34.9

Key elements impacting the ACM target:

Positive: UK, IT and PG: Area savings

+1.7+0.6

+2.3

Negative: Germany perforemance:

-3.9

SW, FN, NW performance: Currency impact:

-0.8-1.5

-6.2

Elements not reflected in the december forecast:

The impact of the Revenue transfer reduction from 0.6% to 0.5% of HW MLP will be shown in the January forecast.

The \$ 0.6 M additional profit due to the PLO2 ITP change to be added in the January forecast as well.

2. Actions:

- Additional hiring, if any, needs my approval.

- Specific business review will be done in Germany in January.

- Above mentioned countries with margin problems are asked to put forward action plans to improve their profitability.

- Plans have been established to meet the new PL02 goals.

- Resource optimization between all faculties to meet training demand with the existing headcount.

- Activities to get additional revenue are in place in all countries.

Regards, Hermann

what alm from "

Date:

29-Dec-1988 07:07am EST

From:

Patrick A. Cataldo

CATALDO.PAT AT al at CECV01 a

t BUO

Dept:

Educational Services

Tel No:

249-4200

TO: RUSS GULLOTTI @NPO TO: PAT CATALDO @OGO

Subject: HERMANN BINDER QUARTERLY REPORT

ff

Date:

28-Dec-1988 07:43am EST Hermann BINDER @GEO

From:

BINDER AT AMISA1@EHQMR1@GEO

Dept:

EDUCATIONAL SERVICES

Tel No:

893-3111 X227

(BARLOW AT AMISA1@EHQMR1@GEO)

TO: David BARLOW @GEO

TO: PAT CATALDO @BUO

CC: PIER CARLO FALOTTI @GEO

Subject: Quarterly Report for ES

1. Business

This is and will be the main focus area for the reminder of the year. As Q2 actual are not available I will give more general comments, however I believe we will have a strong Q2 which will help to improve the situation. The positive side is that ytd we grow the customer business over 20 percent the manpower by 10 percent. The main problem areas are:

Country	Margin impact	Comments ======
Germany	-3.9M\$	Lower business, no related expense reduction. Competition. A review scheduled
Norway	-450K\$	for January. General Business situation, new mgr does his best.
Finland	-250k\$	Manager was taken out, new one interviewed chances are to recover some.
Sweden	-220k\$	New focus put on again, chances are good to recover all.
UK	+1.3M\$	Strong demand for business, need more staff to deliver.
Italy	+370K\$	Strong Business
All Ctry.	-1.5M\$	Net negative currency impact, this means they manage to their local currency goal but can not compensate for the \$ impact.

All other countries are within a few percent of their goals and they are all able to make it.

The net impact of the revenue transfer reduction from .6% of MLP to .5% for Q3 and Q4 will have another negative impact on the margin as we recognize the revenue immediately but have delivery commitments over the next 12 months. For this year the delivery will not go down but the revenue transfer. With the January forecast the countries will be able to reflect it. It a very positive sign that the service content will remain in the systems price.

ACTIONS: Any new hiring needs my approval, Germany has proposed an action plan, local review to take place. Sweden has plan to recover and Finland is being reviewed by the FS Manager. All other countries are asked to improve performance.

A major focus is put on the sale of PLO2 Products (Self study material) as we have received corporate approval to receive material at cost.

Thank you, Pat! This is a step in the right direction and the increase of volume will make it a win situation for all of us.

2. Internal Training

After a weak start in Q1, DECWORLD had an effect our training volume is about 10 percent higher.

- The Network University in Paris was attended by 400

- The OLTP University has 20 persons registered and the

first phase of the nine months program was a full success. It was a good mix of technical and skills content and managed by DECollege in the UK.

- 700 Specialists were trained in Europe on Workstations by

a traveling instructor.

- AI, 5 week program in Munich, successful outcome

- Corporate SWS and FS Training have accepted our Networks Training Curriculum and support development.

3. DECTOP

We put focus on this program and for the first time we produced a single plan, stating which training is offered for which function. This plan was received very positive by Marketing and other functions. Customer Training has a set of very relevant CBI courses for our worksttations which I would like to see bundled. The MLP is 400\$, if we could receive 200\$ from Systems Business all would win, including the customer. To sell these packages individually is very difficult and the users may not get the raining they need. I take up the action.

4. Open Learning Centers (OLC's)

The activity increase is substantial and the demand for this type of learning exceeds our capacity. Germany is opening 10 new centers. The IVIS courses are booked out for weeks. The DVN tapes which we get within a week to the learning centers are successful only in some locations where local moderation is arranged. In these cases they are really appreciated. More work needs to be done. Similar with PACE, thanks to our OLC's we are the most successful company to use. Again people have to get used to this kind of learning.

5. FOM

We have completed our ES-FOM document for implementation, it is being published. The remaining issue is that we strongly believe that the Regional ES Manager should be part of the regional team. This is not accepted and we need to see how it gets resolved. With the criteria of an ES Region and the manager not part of the team weakens the regional efficiency. Once we had the FOM defined it became evident to define the HQ role, this has been done and will be published in Q3.

6. External Events.

Participated and gave several presentations at the 1. European Conference on Continuing Education in Stuttgart. The trend to form collaborations between the public education sector (Univ. and Polytechnics) and Industry is increasing. Some Professors are leading and it is up to us to work with them. Others still have no motivation to find out what industry needs. Participated at the final day of an INSEAD course. Became elected to the new INSEAD Advisory Board, this is a 40 person body which has an annual meeting at INSEAD to give direction and advise

to them. First meeting is planned in May 89. We extended our teaching contract with IMEDE, they buy in turn DEC HW.

7. People

Had to take action with the Finish ES Manager, the people in ES became very unhappy with his style of management. An outplacement process has started. I am interviewing an internal candidate today.

Date:

16-Dec-1988 02:15pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

Dept:

ED SERVICES

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Marianne,(ECA)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceeding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 150K. I would like you to work closely with Sharon Simpson to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able

to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date: 16-Dec-1988 02:19pm GMT

From: JOE FABRIZIO FABRIZIO.JOE

Dept: ED SERVICES
Tel No: 249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Lise, (EA)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 100K. I would like you to work closely with Val Ragsdale to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able

to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:22pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

ED SERVICES

Dept:

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Gary, (wro)

After reviewing the latest Redbook forecast for the remainder of Q2, 03, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceeding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 90K. I would like you to work closely with Tom Oiye to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:24pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

ED SERVICES

Dept:

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Matt, (SW4)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceeding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 130K. I would like you to work closely with Karen Shelley to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:11pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

ED SERVICES

Dept: Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 50K. I would like you to work closely with Tony Porter to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present

obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:26pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

Dept:

ED SERVICES

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTIONS FOR THE REMAINDER OF FY'89

Sherry, (SOA)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 100K. I would like you to work closely with Yvette Casey to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able

to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:28pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

Dept:

ED SERVICES

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

John, (SCA)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 200K. I would like you to work closely with Thomas Hunter to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able

to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 02:31pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

ED SERVICES

Dept:

Tel No:

249-4213

(MANFRED TADLHUBER @AWO)

Remote Addressee CC:

Remote Addressee

(DOMENICK CARPENTIERI @AWO)

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Manfred, (NYA)

TO:

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceeding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- The use of all temporary personnel, including those now on 2. board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- Expense reductions to compensate for the reduction in revenue 3. will be targeted by area. Your expense reduction target for Q3 and Q4 is 120K. I would like you to work closely with Domenick Carpentieri to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste,

poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

Date:

16-Dec-1988 01:56pm GMT

From:

JOE FABRIZIO FABRIZIO.JOE

Dept:

ED SERVICES

Tel No:

249-4213

TO: type "SH" to see distribution list

Subject: EXPENSE REDUCTION FOR THE REMAINDER OF FY'89

Jack, (NEA)

After reviewing the latest Redbook forecast for the remainder of Q2, Q3, and Q4 FY'89, the business picture has significantly deteriorated. As a country we dropped our revenue projections by almost \$3.0M and our margin by more than \$2.0M. This forecast follows the preceeding one in which we reduced revenue projections by \$7.0M. After waiting one month to determine the accuracy of last month's reductions, it is now apparent our business is uncertain and we must take steps to act in accordance with our revenue projections. While we will urgently drive our "get well" plans assembled in our last quarterly, and prioritize all revenue opportunities as #1, #2, and #3, we also find it necessary to take the following prudent business action:

- 1. All hiring, including replacement slots, are on hold until further notice. This includes all previous approved requistions. Any attrition deemed critical to maintain your revenue stream should be reviewed with me personally. All area CTS consultant slots will continue to be filled as soon as possible.
- 2. The use of all temporary personnel, including those now on board, must be approved by me. I will ask you to identify all temporary personnel with Jamie who will then schedule a conference with you to discuss those on board as well potential hires. The sooner you provide this data to Jamie, the faster we can respond to determine the disposition of your temporary help requirements.
- 3. Expense reductions to compensate for the reduction in revenue will be targeted by area. Your expense reduction target for Q3 and Q4 is 400K. I would like you to work closely with Kathy Sullivan to determine how you will achieve this target and submit this plan (one page) to Bob Bianchi and myself by January 15th.

With these steps we will be able to maintain a responsible business posture (but not a pleasant one) until our revenue picture improves. These difficult management decisions are not ones we enjoy imple menting but will cause each of us to seek out and eliminate waste, poor use of resources, unnecessary expenses, and poor business practices. It will make us a better and stronger organization, able

to deal with any competition or challenge. I have complete confidence in you and your people and know that, in spite of the present obstacles, we will be successful. I recommend that you share this memo with your people and ask for any ideas they may have to help achieve our goals. I will look forward to reviewing these with you during our discussions.

Thanks,

ESMC 12/19/88 1. My Schedule/Role z. Ovarterly 3. SIB 4. MKtg Structure Changes 1) Harmony CB Rom. Tru Walsh. DMorth - phymanic improvement planning.
Ties company goals To moter goals. Sets up
recognition propone.

Ed Siris already does which of this

Fiels like a program for companies that are

disconnected. Es is in good shape here.

Uses suggestion program sequires Dich walsh

OK. *330K? Shown as fixed worts - Fee? X 20 *6,600 Saved of 20x rotern. 25 10 - x 20 150 * augustus stevens Problems - Suggestion had feelings - Time to evaluate / meet - reward differentiation doesn: + Jada. 2 yr. effort. - Seel x ma Ed Sucs ??

US DOD delayed 19 (123 Soys) * Ceul Dup - Sex up Solo Demo?? *pot Fourtation - never dende or Strategic issues?

Vor Jollon fluorif. "Silence acceptance" Syndrome.

Group speurs (neurols/ doesn. + decide. Solem

andet Starts San. ? Tom Eaton group Mgn.
george Kay and etc. } Benoie - programmy controls Angrais al septems
Purchasing Controls.

alherence To Seefungored policy (rules i
FDP's prejidse get hem early.

Scoping Strategy 300 Bedfud Kitting

- start in g'i

- expand of to field? (meeds woluntion) - Kiep Billenca process - Change accounting (91?) - Expand Service to the field often Study. Cofederia - espand it \$100K Ops Review - Jim Gelauson gr UAW bronget in Early - who did it is Boing sheet tretal In did Tprof joby - Clear Visions | Pride) - Frag CSP- weel Kept Fecrit Strong QA Junten/DSS RXD learn mine Tolom - - 300K is Sunly Joget d.]

- 175-225 Mar Alis gran to define

modust clearly. Not love touch win technology. I

wol at others to short of - Propose to Estrophees - gry Juding - year ByD

- Proceed @ singmening (booker read) + CDRom -

PROJECT HARMONY 12/19/88

- Of the total workstations we've shipped, Harmony has no, limited or questionable use in the following areas:
 - VS2000
 - Admin type users
 - Unix applications
 - Already trained environments
- To be effective, courses need to be designed for specific use and implementation using Bookreader. Usability testing has demonstrated both instructional design and interfacing issues with existing courses being used.
 - Examples of overlapping windows: courses vs. books
 - People fatigue quickly on this product, further emphasizing the need for new or redesigned courseware.
- Using current courses and resource/reference data there are but (3) three updates that could be completed as part of our offering.
- 4. To date, there have been insufficient plans to train people on how to use the system itself upon release. This appears to be a moderate level task.
- 5. It is not clear what the other competitive products are in this area. There is a big concern that this technology as presented is not an interactive training tool. This is in conflict with our desired training process.
- 6. The main attraction to this technology thus far is ease and speed of information access and as a software load device.
- 7. This technology seems to be an essential component in our future but needs to be coupled to a courseware loading as well as an information retrieval and training delivery strategy.
- 8. Tools, templates and process need to be developed/made available to mass produce courseware in this format but we can not neglect our traditional market/customer base. This implies the need for a market strategy to support this product.
- 9. We need to have a clear understanding of impacts to current revenue streams for this product to be implemented.

ESMC *REVISED* BI-WEEKLY AGENDA DECEMBER 19, 1988 MIDDLESEX ROOM, BEDFORD, MA

RUSS GULLOTTI	OPENING REMARKS	- 8:45	8:30
TIM WALSH	VOTE ON HARMONY PROJECT	- 9:00	8:45
MARITZ COMPANY	PERFORMANCE IMPROVEMENT PLANNING FOR EDUCATIONAL SERVICES	-10:00	9:00
	BREAK	-10:15	10:00
TOM EATON	EDUCATIONAL SERVICES AUDIT UPDATE	-11:15	10:15
	STRETCH	-11:20	11:15
JOHN MCLEAN	BEDFORD KITTING	-11:50	11:20
	LUNCH	- 1:00	11:50
JIM MALANSON	CSP, R&D, QA OPERATIONS REVIEW	- 3:00	1:00
	BREAK	- 3:15	3:00
GROUP REPORTOUTS, O IMPROVE OVERALL	DISCUSSION - NOVEMBER EXPANDED SMALL "HOW CAN E.S. WORK MORE EFFECTIVELY TBUSINESS RESULTS?"	- 4:00	3:15
	OPEN DISCUSSION	- 5:00	4:00

EDUCATIONAL SERVICES MANAGEMENT COMMITTEE ESMC

DATE Dec. 19, 1988

NAME	ATTENDING	NOT ATTENDING	REASON
HERMANN BINDER			-1
ROGER BLOMGREN			
DREW BOYD			
CECIL DYE			
JOE FABRIZIO			
DON ELIAS			
SUSAN GEORGE			
JIM MALANSON		<u> </u>	
JOHN MCLEAN			!
MEL PIERCE			· ·
ROY STEELE	_ P.N	1. ! Va.m	. : Jim Sakellaris - a.i ! vac - Bob Hurph
CHARLES THARP			! vac - Bob Murph
DEL THORNDIKE		, i	1
JOLUUT VANDERHOOFT			· vac - Pat Weger
TIM WALSH			!

INTEROFFICE MEMORANDUM

Date:

13-Dec-1988 02:00pm EST

From:

Jan Svendsen

SVENDSEN. JAN AT a1 at CECV01

Dept:

Strategic Planning 249-4279

Tel No:

TO: See Below

Subject: ** REVISED ** ESMC Agenda for December 19, 1989

ESMC *REVISED* BI-WEEKLY AGENDA DECEMBER 19, 1988 MIDDLESEX ROOM, BEDFORD, MA

8:30 - 8:45	OPENING REMARKS	RUSS GULLOTTI
8:45-9:00	co Rom update	T MAN.
9:00 -10:00	PERFORMANCE IMPROVEMENT PLANNING FOR EDUCATIONAL SERVICES	MARITZ COMPANY
10:00 -10:15	BREAK	
10:15 -11:15	EDUCATIONAL SERVICES AUDIT UPDATE	TOM EATON
11:15 -11:20	STRETCH	
11:20 -11:50	BEDFORD KITTING	JOHN MCLEAN
11:50 - 1:00	LUNCH	
1:00 - 3:00	CSP, R&D, QA OPERATIONS REVIEW	JIM MALANSON
3:00 - 3:15	BREAK	
3:15 - 4:00	DISCUSSION - NOVEMBER EXPANDED SMALL "HOW CAN E.S. WORK MORE EFFECTIVELY T BUSINESS RESULTS?"	GROUP REPORTOUTS, O IMPROVE OVERALL

Press RETURN to continue or EXIT SCREEN to exit OPEN DISCUSSION 4:00 - 5:00

```
TO:
     BARBARA CARY @MSO
TO:
     MEL PIERCE @BUO
TO: TIM WALSH @BUO
     JOLUUT VANDERHOOFT @BUO
TO:
TO:
     DEL THORNDIKE @BUO
TO:
     CHARLES THARP @FPO
     ROY STEELE @BUO
TO:
     JOHN MCLEAN @BUO
TO:
     JIM MALANSON @BUO
TO:
TO:
     SUSAN GEORGE @PKO
TO:
     JOE FABRIZIO @BUO
     DON ELIAS @BUO
TO:
Press RETURN to continue or EXIT SCREEN to exit
     JOLUUT VANDERHOOFT @BUO
TO:
TO: DEL THORNDIKE @BUO
TO: CHARLES THARP @FPO
TO:
    ROY STEELE @BUO
TO:
    JOHN MCLEAN @BUO
    JIM MALANSON @BUO
TO:
    SUSAN GEORGE @PKO
TO:
TO:
    JOE FABRIZIO @BUO
TO:
    DON ELIAS @BUO
     CECIL DYE @OGO
TO:
    PAT CATALDO @BUO
TO:
     DREW BOYD @FPO
TO:
TO:
     ROGER BLOMGREN @AKO
    HERMANN BINDER @OUO
TO:
     GAEL DUSSAULT @BUO
TO:
CC: ED OSTERHUBER @CECV03
    TOM SALEMME @KNX
CC:
CC: JOE ALBERTI @BUO
CC: TOM EATON @AKO
```

RUSS GULLOTTI @NPO

CHESTER BOWLES @DLB

TO:

SMALL GROUP REPORT-OUTS - "HOW CAN E.S. WORK MORE EFFECTIVELY TO IMPROVE OVERALL BUSINESS RESULTS?"

- Group 1: Charlie Tharp- John Romeo, Spokesperson
 - o Market and sell our internal systems, services and processes to our customers.
 - o Monitor and control discretionary spending, e.g.
 - . overnight express mail
 - . travel (\$14m/year) decrease 25%
 - . overtime preapproved
 - . meetings decrease 50%
 - . dues and subscriptions (\$25K)
 - . purchase orders (\$80/order)
 - o Creative use of labor resources to get a job done. e.g.
 - . reassignable pool
 - . parttime
 - . interns
 - . co-ops
 - . temps
 - o Pay employees bi-weekly for exempt
 - Rejustify the need for computer equipment at home and use of DIAL
- Group 2: Don Elias Bill Chaplin, Spokesperson
 - o Increase organizational effectiveness
 - complimentary metrics
 - . reduce redundancy
 - o Doing business with customer perspective
 - . flexible
 - . train DEC personnel
 - o Improve use of mail system
 - o Improve business practices
 - . development and delivery
 - . technology

- o Reduce approval process
- o Consolidate Systems
 - . order administration and registration
- Broup 3: Vanderhooft/Pierce Bob Mjos, Spokesperson
 - o Reduce internal competition and duplication
 - . delivery (U & C course)
 - . sharing resources (instructors)
 - development (modules)
 - . curriculum management
 - . flexible delivery, and dollar management
 - . non-E.S. groups, too
 - project duplication (PTP, testing)
 - . administration (registration, policies)
 - . not just to reduce costs but drive increased activity
 - * need pilot with a 'driver'
 - o Review and prioritize every program/project for impact on revenue, costs, or client group's performance
 - . increase priority of PTP
 - . review new facility programs to reinforce sharing
 - . review new administration system (QUEST, CATS) for effectiveness
 - . institute project reviews and learn from them (rating process)
 - . make sure programs drive business or support the field
 - * Pilot of program review process
 - o Review management metric to ensure they reinforce the desired behavior
 - . market penetration vs. SW activity
 - . foster sharing
 - . metrics conflict with desired and with each other
 - . employee idea incentives
 - . utilization of C/E (VAX's)
 - . cost saving/productivity on goal sheets/job plans
 - . cross-function look at metrics
 - * Personnel drives task force
 - George/Boyd Joe Alberti, Spokesperson Group 4:
 - o Expense Management
 - . facilities utilities
 - . impact to budgets
 - . individual contributions
 - . awareness
 - . better defined investment plans
 - o Productivity
 - . on an individual basis

. management inconsistencies

Action Items:

- A. Establish expense reduction targets for FY89-90 (Specific %)
- B. Establish and evaluate productivity targets
- C. Increase awareness and feedback to all levels of E.S.
 - . E.S. management takes individual ownership for process
 - . productivity prize for individual/group
 - . Finance prepares the Awareness Paper
 - . Personnel prepares Delivery Guidelines
 - . CC manager conduct group meetings with staff
 - . ESMC members to report Group Plans

Group 5: Tim Walsh - Joe Gallagher, Spokesperson

- o Analysis:
 - . IEG expendables
 - . Telecom
 - . System usage
- o Goal: Reduce costs by x%.
 - . master file for instructors
 - . resource sharing classroom, systems, people (instructors. registrars)
 - . goals for cost effectiveness: recognize and reward
 - . internal resources/vendors
 - . rush jobs!!

Group 6: Steele/Malanson - Marsha Cullinane, Spokesperson

- o Believable
- o Achievable
- o Measurable
- o Affordable

o Revenue:

Establish a strategy for new product introductions:

- . development, delivery plans, marketing program, ROI,
- . long term strategy, short term tactics
- o Efficiency/Productivity
 - . WC2 labor exception reporting
- o Duplication of Efforts
 - . consolidate all PTP efforts by: halting all current activity; assessing status; formulating one strategy and moving forward
- o Other Opportunities
 - . Registrar stovepipes
- o Capital Investment

- . Reevaluate all field and HQ investment plans
- $^{\circ}$ A.I. The ESMC will discuss the work of the Small Group at its December 19th meeting.

Organization Name : QA CSP RAD

Session Title : ESMC Ops Review

Report Date : 12/19/88

Page 1 OPS REV

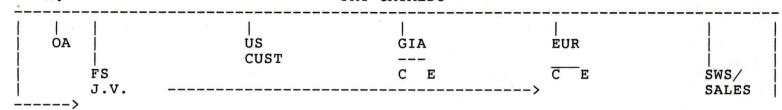
MultiSurvey II Question Result Report

Question # 5 Sequence # 5

> I FEEL THE AUTOMATED RESPONSE SYSTEM IS A GOOD IDEA.

5 4 3 2 1 0 SA A N D SD NA

NUMBER OF ANSWERS = 5 CORRECT ANSWER = 0 NUMBER OF RESPONSES PERCENTAGE ------0% 1. 0 2. 0 3. 2 0% 13% 40% 4. 5. 7 47% Total number of responses: 15 Average Response : 4.3 Percentage 10 20 30 40 50 60 70 80 90 100 0% 1. 2. 0% 3. 13% ****** ******* 4. 40% ********* 47% 5.



held

INTEROFFICE MEMORANDUM

Date:

2-Dec-1988 10:28am GMT

From:

JOLUUT VANDERHOOFT

VANDERHOOFT.JOLUUT AT a1 at C

ECV01 at BUO

Dept: Tel No: 249-1411

TO: MEL PIERCE @BUO

PAT CATALDO @BUO

These are the types of

equests Dec cannox

Subject: Human Resource Manager - ESDP

Per your request the following are some of the responsibilities of the I would not proposed HRM:

2

1. Human Resource Planning and Development: w FY 89

- Define and establish consistent processes for JPR, Performance Appraisal, and salary reviews and career development planning to ensure that business needs are met and skills are developed to accommodate future business requirements. (Specific attention, needs to be paid to changes occurring as a result of the transition to Electronic Publishing and other emerging technologies.)
- Career Development decrease undesired organizational churn/turnover while facilitating the movement of the employees, when necessary, to more appropriate skill matches through the use of individualized training plans for contributors world-wide.
- Work Force Planning help anticipate changing workforce needs due to changes in technology. Develop training plans and define strategies to accommodate changing technological needs and skill set requirements. Develop programs and processes to facilitate the implementation of meaningful career planning for contributors world-wide which enables re-skilling, as appropriate, to meet changing business needs.
- Define and advise on employee relations impact of business D. decisions.
- Identify and define impact of sick time, absenteeism and work E. related short term disabilities and develop programs and strategies to reduce the impact.
- Develop programs to help manage the organizational impact of technological changes and change to the roles of employees in the work place resulting from the transition to electronic publishing and the impact of workstations/DECWindows on the course development documentation and publishing processes.
- G. Work with the employment organization to facilitate sourcing of

potential employees who meet future skill requirements out add to the EEO/AA goals of the organization.

 Succession Planning - develop a strategy to prevent the loss of organizational productivity by actively planning a succession process for key managers and consultants.

3. Compensation/Benefits:

- A. Ensure that organizational issues that can effect work productivity are escalated.
- B. Reward and recognition support the maintenance of the existing recognition program and, as needed, propose alternate reward programs.
- C. JEC responsible for the organizational analysis of job codes world-wide, participation in cross-organizational review process, and assessment of: population movement, adverse EEO impact and the successful completion of the process.
- D. Salary Planning ongoing evaluation of salary planning and implementation to support the optimum use of available dollars and attainment of organizational spending goals and metrics.

4. Organization Development:

- A. Analyze organizational dynamics and assess the effectiveness of the organizational structure to meet defined business goals.
- B. As part of the ESDPMC, work to improve the effectiveness of the team in problem solving and planning.
- C. Facilitate management committee meetings to ensure that the process supports the attainment business goals.

5. EEO/AA/Valuing Differences:

- A. Develop programs that create a climate that attracts and maintains a workforce that reflects the changing demographics of the population.
- B. Develop programs to increase the productivity of work teams by effectively utilizing the skills of all members.

6, Communication and linkage:

- A. Coordinate and provide key communication link to world-wide ESDP Personnel consultants to ensure consistent direction and application of programs across diverse sites.
- B. Coordinate cross-functional integration of ESDP with other Ed. Services organizations to ensure consistency of programs and practices within Ed. Services.

C. Support Employment in its sourcing of specialized skills required to meet the demands of changing technology.



Educational Services Consolidated Training Information Plan (ver.1)

Imation Plan (ver.

List on six on si funding clanty rugs.

proposeing structers

pro pricing structers spend ion 70 get you???

December, 1988

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation. Digital Equipment Corporation assumes no responsibility for any errors that may appear in this document.

The software described in this document is furnished under a license and may be used or copied only in accordance with the terms of such license.

No responsibility is assumed for the use or reliability of software on equipment that is not supplied by Digital Equipment Corporation or its affiliated companies.

Copyright ©1988 by Digital Equipment Corporation

All Rights Reserved.

Printed in U.S.A.

The following are trademarks of Digital Equipment Corporation:

DEC DIBOL DEC/CMS EduSystem DEC/MMS IAS **MASSBUS DECnet** DECsystem-10 PDP DECSYSTEM-20 PDT DECUS RSTS **DECwriter** RSX

UNIBUS VAX VAXcluster VMS VT



This document was prepared using VAX DOCUMENT, Version 1.1

CONTENTS

odule 1 EDUCATIONAL SERVICES CONSOLIDATED TRAINING INFORMATION PLAN	1–1
1. PURPOSE OF THIS DOCUMENT	
CDTIP Notes	
CDTIP Committees	
Subcommittees	
2. CONSOLIDATED DISTRIBUTION OF TRAINING AND INFORMATION	
PROGRAM	
Introduction	. 1–4
Goals and Objectives	. 1–6
Non-Goals	. 1–7
Description	. 1–7
3. PRODUCT DESCRIPTION	. 1–8
Executive Summary	. 1–8
Market Description and Needs	. 1–9
Customer Profile	. 1–9
Product Description	. 1–9
Goals	. 1–10
Consolidated Distribution and License Management Facility Compliance	. 1–12
Product Content	. 1–13
Hardware and Software	. 1–15
Administration Software	. 1–15
Retrieval Software	. 1–15
Training and Support	. 1–16
Accompanying Services	. 1–17
Customer Service	. 1–17
Potential Future Products	. 1–17
Third-Party	
Coordination and Manufacture of Disks	
Local Language Versions	
Other Potential Elements that are Being Considered as Part of the Subscription:	. 1–19
Ordering Support	
Courseware Access Management	. 1–20
VMS and VMS DECwindows Software (BOOKREADER)	. 1–20
4. CDTIP MARKETING PLAN	
Program Positioning	. 1–21
Target Audience	. 1–22
Marketing Messages	. 1–22
Digital As A Technological Leader	. 1–22
Digital as an Innovator	. 1–22
It Is Form to Do Business With Digital	

Market Analysis	1-23
Market Size	
Customer Expectations and Feedback	1-23
On-line Training Market Requirements	
Architecture/Configuration	
Performance	
Price/Performance	
Transfer Cost	
Time-to-Market	1-25
5. MARKETING COMMUNICATIONS	1–26
Literature Program	
Audio Cassette Program	
Slide Show	
Public Relations	
Digest	
Classroom	
Customer Activities	
6. CDTIP - Pricing Strategy	1–29
Pricing and Product Acquisition Key (PAK) Strategy	
Subscription Service	
Product Acquisition Keys - PAKs	
7. BUSINESS PLAN	1–31
Market Size	1-31
Market Segmentation	1–31
8. IMPLEMENTATION SCHEDULE	1–33
TABLES	
하다마 교육하다. 그리는 이번에 아이를 살아왔다. 얼굴에 나는 그는 그는 그는 그를 하는 그는 그를 하는 그를 가는 것이 아니는 그를 하는 것이다.	1 00
1-1 Work Stations (Non RISC)	1-32

EDUCATIONAL SERVICES CONSOLIDATED TRAINING INFORMATION PLAN

1. PURPOSE OF THIS DOCUMENT

This document is designed to update and solicit feedback from Educational Services Management on the status of CDTIP program.

The CDTIP "Notes File" is the primary communication vehicle used to keep CDTIP information current.

CDTIP Notes

The CDTIP Notes File was created to allow people access to the latest information regarding the project. Access to the conference is currently restricted and requires notification of the moderator.

To be allowed access to the CDTIP Notes File, please contact John Cleary on node CDROM::CLEARY.

CDTIP Committees

CDTIP is a committee that meets bi-weekly to review the progress of various subcommittees.

The members are:

Brian Osborne - Program Manager
Kathy Jamieson - Product Definition
Lisa Erhlich - Research and Development
John Shack - Business and Finance
Robert Hoffman - Manufacturing
Jim Stewart - Product Marketing
Bob Mjos - Industry Marketing
John Osborn - Third Party Development
Kevin Whittemore - GIA
John Cleary - CDTIP Coordinator

Subcommittees

Product Definition - Kathy Jamieson

Charter: To define phase 1.0 product descriptions.

Research and Development - Lisa Erlich

Charter: To define and integrate new technology to enhance functionality as these technologies emerge.

Business and Finance - John Shack

Charter: To examine business/financial issues related to CDTIP and develop pricing strategies and terms and conditions.

Manufacturing - Robert Hoffman

Charter: Integrate Educational Services manufacturing and distribution strategies with the Software Business Technologies program.

Third Party Development - John Osborn

Charter: Investigate the requirements for providing product and services to third party companies for the development and distribution of training and information.

2. CONSOLIDATED DISTRIBUTION OF TRAINING AND INFORMATION PROGRAM

Introduction

The Consolidated Distribution of Training and Information, (CDTIP), is a subset of the Software Business Technologies program (SBT) formed within the VMS Product Management Organization. VMS Product Management's role is to plan and implement new software business technologies within Digital in a timely manner. To this end Digital Software Engineering is currently pursuing four separate integrated technologies to improve the distribution, installation, and access to software, technical documentation and training. These technologies are:

- 1. On-line Documentation OLD
- 2. Consolidated Distribution of Software CONDIST
- 3. Software Access Management DDSLA/LMF
- 4. Consolidated Distribution of Training and Information Product (CDTIP)

Each technology has an impact on the following:

- System management
- Ease-of-use
- End-user productivity
- Educational services organizations
- Customer organizations
- Customer and Digital business procedures
- Licensing policies and pricing systems
- Customer satisfaction
- The selling process

CDROM manages software documentation and training access and distribution. CDROM features:

- 600 megabytes of data
- Random access
- · Improving seek times
- · Acceptance in the industry is growing rapidly
- Less costly drives and media for access to vast quantities of data
- Read-only improves security
- Audio and video short-term potential

The computer industry continues to grow aggressively, with a noticeable shift towards workstations. The market size is no longer unlimited. The shift from unlimited growth to "share-wars" is taking shape.

If Digital is to maintain its growth and increasing market share, software services enterprise solutions (integration) and standards are seen as the major new competitive fronts.

As hardware prices continue to drop, other factors play an increased role in the system price. These are:

- Cost of sale
- Engineering
- Manufacturing
- Service delivery costs

Desktop power, brought on by these changes in technology, is having a dramatic impact on the way people work. It is anticipated that 50% of the US work force will change jobs within the next five years, fewer people are entering the work force who are not qualified in the new technologies.

Educational Services has an opportunity to provide a leadership role in providing high quality training at the workstation. CDTIP is the vehicle that provides that capability.

Goals and Objectives

The goals of this program are to:

- Provide industry leadership in on-line training
- Give our customers the benefits of emerging technologies while improving our competitive position
- Improve customer satisfaction with Digital
- Provide an incremental revenue stream for Educational Services

These are met through the following:

- 1. Customer benefits
 - Easy access to training for everybody
 - Improved course management
 - · Improved productivity
 - · Improved employee morale

2. Cost Reduction

- Cost of sale
- Cost of manufacturing and distribution
- Cost of inventory

Non-Goals

It is not a goal of this program to:

- Take responsibility for certain problems that exist today
- To solve the problem of synchronizing courseware distribution with first customer ship or implement version changes. (These issues must be resolved in Product Marketing.)
- To solve licensing or pricing issues
- To take on the responsibility of product pricing strategies. This is Product Marketing's responsibility. For example:CBIs that are currently priced as a point of product available at a single price will be delivered by CDTIP under the same terms and conditions.

Description

REQUIREMENTS

There are five elements that comprise the consolidated distribution program:

- 1. Compact disks and their contents
- 2. Information consolidation and manufacture of disks
- 3. The customer offering and delivery
- 4. Courseware access management
- Consolidated distribution in the customer environment.

3. PRODUCT DESCRIPTION

Executive Summary

This document describes the product, services and support requirements for Phase 1 of a multiphase program to take place over the next 5-10 years. It is based on a quick-to-market goal consistent with the Software Business Technologies Program goals. Subsequent phases will be documented as they are designed, developed and approved by CDTIP.

Phase 1 focuses on a core VMS curriculum with supporting VMS operating system documentation, relevant *Digital Press* books and administrative support functions such as getting started with DECwindows, curriculum planners, etc.

The target audience for Phase 1 is the technical staff in a Data Processing or MIS organization—programmers, operators, system managers, etc.

The main design objective is that the product be a self-contained learning environment. That is, by using windows, the student will be able to quickly and easily access all of the resources required to complete the training.

Subsequent phases will provide product enhancements in terms of new courses, curriculum, upgrades to existing courses, and new functions.

Market Description and Needs

(To be supplied.)

Customer Profile

The product is targeted to departments within large corporations (DNA 600) that have technical staffs of ten or more. This represents approximately 60% of the total end-user market. However, this market is limited by:

- Version 5.0 of VMS
- DECwindows
- Workstations

Initially, the product will have most impact when leveraged off of software and on-line documentation sales.

Product Description

The CDTIP product supplies text-based training and information materials on a CDROM, which will be used from a windowed workstation. The focus on learning is the key to this effort. In order to differentiate this product from other CDROM disk-based reference tools (such as documentation and dictionaries), learning opportunities are emphasized. Content and user access utilities which support learning are important elements.

The audience for this product is VMS software developers and system managers.

Goals

The goal of the Version 1.0 product is to provide a set of VMS operating system courses tailored to the needs of software developers and system managers. These are our most popular courses. The majority of the material is text-based and adapted to the current product through the conversion features of the BOOKREADER software. The Version 1.0 product addresses the needs of VMS operating system technical users with training and support materials, including:

- 1. How to access information and learn on-line with BOOKREADER
- 2. A curriculum map which highlights available CDTIP courses, thereby helping users plan their own learning program
- VMS V5 core curriculum of text-based instruction which matches the learning needs of the target users
- 4. "Course kits" which include tests and practice exercises
- 5. A limited selection of Digital Press books of direct value to the target users
- 6. A set of reference documents to support the learning materials

Each course will be separate from all other courses. V1.0 of BOOKREADER does not support cross reference links between individual documents. Therefore, CDTIP V1.0 will not be able to support cross references between courses and their support materials.

Version 1.0 product goals involve:

- Educational
- · Software business technology Product Development
- Digital hardware and software
- International Compliance

Educational

First, the goal is to respond primarily to the learner who needs a structured body of knowledge, e.g. the worker new to a job or field. The learner could go through an explanation from beginning to end, test his knowledge after each unit, and practice his skills.

Second, the goal is to respond to the learner who needs to "learn on demand." Through the Table of Contents generated by the BOOKREADER software, the learner can search for explanations or examples necessary to perform a job task.

Since the product operates in the DECwindows environment, the learner will have the ability to open additional windows. For example, while studying a lesson in one window, the learner could open another window to run an example.

Software Business Technology (SBT) Product Development

The goal is to support the business model and the product distribution strategy being developed by the Software Services Group. During FY '89 the SDC will begin to distribute software and documentation on CDROM.

· Digital hardware and software

The goal of the CDTIP product is to support current standards as well as develop future standards for Digital workstations and information retrieval products. The CDTIP product will be available for use on Digital workstations with DECwindows and will use the BOOKREADER software for information access and display.

International Compliance

Since the product uses the BOOKREADER software for information access and display, the goal is to follow the international development of BOOKREADER software. DECwindows V1.0 will not be an international (I18N) product. Therefore, CDTIP V1.0 will not include internationalization plans.

Consolidated Distribution and License Management Facility Compliance

The CDTIP team is working with the SBT team to develop a new business model. Current plans include separate disks for each of the following:

- Multiple software products (CONDIST)
- Multiple software documentation sets (OLD)
- Multiple Educational Services products (CDTIP)
- Administration and marketing information

Access to the first three disks will be managed through the License Management Facility (LMF), a VMS operating system utility. Customers will be issued Product Access Keys (PAKs) for products they have licensed.

Product Content

The key design feature for CDTIP is accurate, comprehensive,up-to-date information a specific topic. The V1.0 product will include:

- Installation Booklet—containing procedures for mounting the CDROM, a list of the disk contents, and other pertinent information
- Reference Card—for "getting started" (multiple copies)
- CDROM, containing:
 - Navigational tools (menu system)
 - The Educational Services course catalog (descriptions)
 - Curriculum map(s)
 - Front end administration package
 - + Introduction ("how to")
 - + Administrator guides
 - + Test administration package
 - + DECwindows CBI course

- VMS V5.0 text-based course materials, including course kits:
 - + VMS Operator
 - + VMS Utilities and Commands
 - + VMS System Management
 - + Advanced VMS Command Procedures
 - + VAXcluster System Management
 - + Introduction to VAX TPU Programming
 - + Small System Manager
 - + Programming DECwindows
 - + Utilizing VMS Features from BASIC
 - + Utilizing VMS Features from C
 - + Utilizing VMS Features from COBOL
 - + Utilizing VMS Features from FORTRAN
 - + Utilizing VMS Features from MACRO
 - + Utilizing VMS Features from PASCAL
- Digital Products and Services Sales Training Course
- VMS V5.0 Documentation Set
- VMS DECwindows V1.0 Documentation Set
- VMS related Digital Press books, specifically:
 - + VAX Internals and Data Structures
 - + The Digital Dictionary
 - + The Digital Technical Journals
 - + Programming X-Windows
 - + A Beginner's Guide to VMS Utilities and Applications

Hardware and Software

CDTIP V1.0 will require the following hardware:

- VAX Workstation or P/VAX
- RRD50 or RRD40 CD Reader

CDTIP V1.0 will require the following software:

- VMS V5.0 or higher
- DECwindows V1.0
- High level language for the customer who has purchased one of the Utilizing Features from VMS courses

Administration Software

- The License Management Facility (LMF) will be used to provide a security control point for access to text files on the CDROM.
- Course kits will be installed using VMSINSTAL and accessed through the LMF.
- Testing software to facilitate student self-evaluation of prerequisite knowledge and of postinstruction ability must be developed. Some redesign of the text-based tests may be required to allow for automatic evaluation (scoring) and to record completed course activities.

Retrieval Software

The key design concept for the Retrieval Software is ease-of-use. Users should be able to complete training activities using minimal menus and forms. Graphic or icon-oriented selection should be used when possible. All functions, whether training or information access, should be standardized and follow a common methodology (command/qualifier, menu/form, mouse point/click, etc).

Since CUP Engineering is producing the DECwindows, VMS, and layered product on-line documentation under the BOOKREADER (a facility under DECwindows V1.0), the CDTIP courseware and *Digital Press* books will also use BOOKREADER. This will ensure consistency among all information products on the CDROM.

Training and Support

To meet ease-of-use criteria, training and support utilities should be provided. Users will need support in two primary areas:

- 1. Basic skills and knowledge
- 2. Productivity techniques
- Basic skills and knowledge concerning use of the components of the product and of the supporting system listed below.

This may be accomplished through documentation and courseware.

- CDROM media and CD reader
- DECwindows software (i.e. DECwindows CBI)
- CDTIP menu system
- Courseware (including course kits and test administration)
- BOOKREADER software
- User Guide Booklet or Reference Card insert with start-up information and listing of disk contents
- Productivity techniques for effective use of the product and the supporting system.

Support utilities may provide commonly used techniques, suggestions (hints and tips) demonstrations and examples as to effective and "fast" methods to access information.

- Introduction to the product, its educational and technical philosophy, and differentiation from other Digital educational products.
- Utilities and demonstrations to assist new users in understanding how to use BOOKREADER to access on-line information.
- Menus and "road maps" help users to understand the structure and organization of the product environment.
- Educational Services curriculum maps.
- Large corporate users may be provided with a hard copy of each course for access in a central library.

Accompanying Services

A hot-line support service is available as part of the subscription in the United States. Other areas will define their own services.

Customer Service

- Educational Services will support the product and its instructional content.
- Software Services will provide support for the VMS operating system, DECwindows and BOOKREADER (through CSC or hotline support).
- Field Service will provide installation and remedial support for the RRD50 and RRD40 and their controllers.

Potential Future Products

Third-Party

The entire SBT program is designed to allow for third-party participation. A gating factor to third-party application is a field test of LMF to support third parties.

It is possible that we could provide services to support third party training and information to be distributed and managed by Digital. Further research is necessary to test this notion, although there was a positive indication given by some CMPs at the FALL 88 DECUS.

Coordination and Manufacture of Disks

When application development is complete, and prior to the creation of a CDROM master, all files to be placed on the optical disk must be gathered together on one hard disk and formatted to the specifications of the CDROM mastering vendor.

That is, the relevant data is copied in its final form onto a dedicated magnetic disk (i.e. RA60, RA81, RA82) that has been initialized to the current Digital CDROM file standard (UNIFILE). Proprietary software is used to create an image of the disk on tape in the format specified by the chosen CDROM mastering vendor. The formatted tapes are then sent out to be mastered and replicated, a process that takes from three to fifteen days, depending on the turnaround time we select.

At the mastering plan the input tapes are read onto a VAX system, and through the use of a photo-etching process, a master optical disk is made on a glass plate. From this master a series of "offsprint" or submasters are made, culminating in a metal stamper disk. The stamper is used to stamp out replicates in polycarbonate plastic, which are laminated with a metallic backing and then silk-screened with the application label. After bundling with the appropriate documentation and packaging, they are returned to Digital for testing and distribution.

Local Language Versions

Corporate Marketing will not provide local language versions of the disk. This is a local country decision. Corporate Marketing will make available copies of the tape such that local language versions can be made by the individual countries.

The initial customers offering will be a service offering. It is proposed that the offering consist of an annual subscription to the consolidated training and documentation to support the training on a single disk. The customer would purchase a PAK to access the "Intellectual Property" i.e., the courses.

The rationale for this methodology rather than an "a la carte" version is that there is added security in customers who are in a long-term contractual relationship with Digital. Moreover, it provides a steady stream of revenue (annuity) during the life of each contract.

Other Potential Elements that are Being Considered as Part of the Subscription:

- Getting started with DECwindows (CBI)
- Course demos
- Course catalogue and curriculum guides
- Personal training plans
- Digital Press books
- Informational databases
- Hot line technical support

Ordering Support

Fast efficient ordering

A unique ordering telephone number direct to manufacturing in Billerica could allow a customer to receive a PAK by overnight mail. When technology for generating PAKs via the phone exists, ordering will be instant.

Courseware Access Management

Software license management tools serve as the enabling technology for consolidated distribution and courseware license management. The LMF is the part of the operating system that includes a utility to manage the license database, a set of system services to interrogate the database and internal executive routines to distribute license checking across a VAX cluster. Basically, an application calls the LMF to obtain license information and check that it is legal. The database of license information is maintained by the Product Authorization Keys (PAKs) issued by the licenser.

Standardized license keys (PAKs) are employed for tracking courseware at installation. PAKs are used initially to register a license in the license database. The PAK contains information about the license, product, and customer. A PAK contains a unique serial number that can be used to locate original order documents and other records at the Digital site.

Customers may copy CBI courseware from their CD, but must have a license to install and run the courseware product(s). In placing all of Digital courseware on CD, a means of protecting it is required, and the current strategy is believed to be a good solution to the dilemma of too much or too little protection. The LMF provides a significantly better tracking and record keeping system than we have today.

Digital software access management strategy is built on a strong principle of customer trust. The primary goals of this strategy are to:

- 1. Prevent an unprivileged user from compliance avoidance
- 2. Require an overt system manager action to avoid compliance
- 3. Provide for a reconcilable audit trail of license activity

This strategy is based on a presumption of honesty and an administrative system to track performance over time, or "management" vs "enforcement".

- · All security systems are breakable
- Visible security systems make many people uncomfortable
- · People dislike feeling that they are not trusted
- Tolerating some shrinkage is often less expensive than trying to enforce it
- Security systems can create losses that are difficult to detect and measure by alienating potential customers

VMS and VMS DECwindows Software (BOOKREADER)

The VMS DECwindows BOOKREADER serves as the retrieval software for the on-line training database. As part of the DECwindows package, it provides a comprehensive means of accessing the courseware and related documentation on-line as and when required.

4. CDTIP MARKETING PLAN

The CDTIP marketing plan has been developed based on a variety of study programs and market research. It is an evolving plan and requires continuous updating. We are basing the first plan version on:

- DECUS Fall 88 Survey
- DEC's workstation history (installed base) and forecast
- · Various focus group feedback sessions conducted by market research
- On-line documentation market research study conducted by Decision Research Corporation
- Various articles on CDROM applications

Program Positioning

Digital has launched several programs to address the growing workstation/desktop market. To date, Digital's major competition in this market has been companies like Sun, Apollo, and Hewlett Packard. These high-performance workstations run sophisticated graphics packages and are marketed as attractive price and performance customer solutions.

Digital brings to this market two very special features:

- A full range of vertical system integration with the VMS operating system running on CPUs ranging from the PVAX to the VAX 8800
- The new DECwindows workstation software

In addition, Digital recently announced its intention to improve business practices; make it easier for customers to do business with us. The LMF, implemented in VMS Version 5.0, is the tool that enabled innovations like cluster-wide licensing and a permanent database for customers to track their system software.

The on-line training program is being designed to support and enhance Digital's technological and business goals. In addition, this program will enhance Digital's reputation as a publisher of top-quality training products.

On-line training is marketed as an innovative and cost-effective solution to customers' training needs. It is distributed for retrieval on VAXstation systems running VMS DECwindows and thus will offer a competitive advantage to the Sun, Apollo, and Symbolics products since they do not offer on-line training. On-line training will include all of the text and graphics contained in the hardcopy documentation, however, the format is optimally displayed on the workstation monitor.

No other vendor in the market has taken this approach. This program is a technology leader in every sense.

Target Audience

The target audience for the marketing program is the system manager who is, typically, responsible for ensuring that resources available to end users. The evolution from centralized to desktop computing has made the job of the system manager far more complex. Instead of being responsible for one or two 11/780's, the system manager typically has 20 to 30 PVAX' or workstations on a local area network (LAN) or cluster to mainframe VAX. The key messages are aimed at alleviating the managers' training and support problems.

Marketing Messages

The on-line training program supports several of Digital's current marketing messages.

Digital As A Technological Leader

This program positions Digital as a technological leader. None of Digital's direct competitors are presently using CDROM as media to distribute their software products, on-line documentation or training in a consolidated form. In addition, none of Digital's competitors have devised an engineering tool like the LMF that provides a means of security and simplified license administration to support this type of innovative distribution.

This program reinforces Digital's commitment to networks and clusters by allowing the customer to purchase a limited number of CDROM drives and then distribute software and documentation and training on-line over network links.

Digital as an Innovator

Not only has Digital used the latest in technology to assist in the distribution and access of on-line training, but Digital has also created innovative business practices to complement its technology leadership. This program establishes an innovative method for customers to receive training products, innovative marketing and sales approaches (the ability to offer trial documentation reviews; new product announcements, and promotional literature), and innovative software tools for user productivity (the DECwindows BOOKREADER).

It Is Easy to Do Business With Digital

All of these innovations lead to the customer perception that Digital is a company that is easy to do business with. Many inconveniences are taken out of the purchasing process, the sales cycle, and product maintenance (predictable updates schedule).

Market Analysis

The following sections describe the characteristics of the market for this on-line documentation program.

Market Size

The on-line training market is exactly the same size as the VMS VAXstation market. Because the VMS DECwindows has the potential to take on-line training, the number of on-line training subscriptions sold will probably depend on how many CDROM drives are required to support any given cluster (containing VAXstations) or set of standalone VAXstation systems.

Refer to the Business Plan for sizing numbers.

The CDROM drive that is sold to support this program is the RRD40, which has both a QBUS and SCSI interface. Since all of Digital's workstations support either the QBUS or SCSI controller interfaces, the RRD40 will not limit the potential market for on-line training.

Customer Expectations and Feedback

The program vision and implementation strategy has been tested through a customer pilot program conducted jointly by SSG, SPG, and SPS. The design of the program included on-site visits to 12 customers who were selected to represent the different sizes, businesses, and needs of typical Digital customers. A presentation was made explaining the SBT program, and then an open discussion session was held at each site.

The overall feedback was consistent and very positive. Customers would like to receive software and documentation on compact disk today. While there is some concern over the BOOKREADER supporting only the VAXstation platform, customers will still be eager to purchase on-line documentation for the workstations they own. It was also noted during the pilots that an ULTRIX interface to the BOOKREADER would be highly desirable.

Customers identified the security benefits of read-only compact disk media, and indicated that they would also realize the benefit of improved update scheduling and easier maintenance for both software and documentation. In general, customers viewed on-line documentation as an added convenience and a user productivity tool in their environment (if they had VAXstations). However, they also recognized that this program represents a cost savings opportunity for Digital, and they expect some of that savings to be passed on to them.

On-line Training Market Requirements

Educational Services was not part of the original surveys but, through our own studies, we have confirmed customer acceptability. Further, from the *Decision Research Corp.* study, the second most needed feature required was to be able to look at examples. Our training courses provide the solution to that aspect.

Architecture/Configuration

Simplicity and ease-of-use are critical to the success of any user productivity tool; the hardware cannot get in the way of a good software application. The combination of VAXstations and RRD40 CDROM drives appear to meet these objectives.

Performance

Access time to both the BOOKREADER application running on DECwindows and to the data contained on the compact disk must be rapid. No matter what navigational features are provided by the BOOKREADER application, it cannot take longer to locate a topic of information than it would to pull a manual off the bookshelf.

While speed is crucial, performance for this kind of application is also based on the features supplied. Apart from the BOOKREADER (software) features, the on-line training CDROM must be attractively packaged and contain all necessary information for customers to understand what they have received (for example, a listing of all the files contained on the disk). Finally, the subscription disks must arrive on time at customer sites. Regular, subscription delivery implies the predictability expected from, say, magazine subscriptions.

Price/Performance

While customers expect high performance, the greater expectation is that compact disk distribution will provide them with a savings on what they spend today on software and documentation purchases. In addition, the personal computing market (as well as the CD audio market) has set certain pricing expectations for compact disk pricing.

It is critical for Digital to be innovative in our packaging, pricing, and delivery of on-line training so that we can price it somewhat in line with our comparable courseware but at the same time, pass a significant level of cost savings on to customers, thereby making it more attractive to migrate to on-line training delivery.

Transfer Cost

Transfer cost is not strictly a market requirement, but rather a means of measuring internal efficiency, competitiveness, and Digital's ability to re-invest in a particular product set. The "transfer cost" of producing the compact disks has declined substantially, and will continue to decline as volumes increase. The area of most concern for this program, then, is the transfer cost of the new generation RRD40 CDROM drive.

Time-to-Market

Digital is a leader with this program, and to maintain this competitive edge, meeting the schedule of a first distribution in Q4 '89 is essential. The first program offering in the subscription service will include the VMS Core training and related DEC press Books.

5. MARKETING COMMUNICATIONS

Educational Services' strategy is to piggyback on the promotional programs developed by SBT. It is not the goal of CDTIP to provide country-specific brochures and feature sheets.

The overall goal is to design, create, and deliver an integrated set of messages via established communications mechanisms. These delivery mechanisms include the production of literature, press events, and prepared news articles in internal Digital publications.

Literature Program

Design and produce an integrated set of promotional literature that delivers:

- SBT Brochure
- Sales Solutions Guides
- Sales Communications
- Sales Flash
- Special Sales Update issues devoted to specific product announcements; (for example, the special issue planned for the DECwindow announcement)

Audio Cassette Program

The DECwindows Desktop Environment will be featured on the Sales Training Audio Cassette Program. The tapes will provide listeners with information on DECwindows including industry news, competition, messages, etc.

Slide Show

A slide show will be needed to focus on the Marketing Strategy Messages and Components of the program. This will be required after the announcement of DECwindows.

Public Relations

The Public Relations function is extremely critical for ensuring maximum visibility for the program, through corporate and product announcements, trade publication articles, interviews, and through consultant's recommendations. Many leading editors and consultants develop perceptions of products and programs and write about what they know. It is a goal of Public Relations that these people develop the correct perceptions relative to the program.

Digest

The Q4 Digest should have the Consolidated Distribution of On-line Training and Information Program as it's feature article. The thrust should be to generate interest and request for further information.

Classroom

Educational Services has the opportunity to provide a significant pull strategy not only for CDTIP but for SBT entirely.

At a minimum, promotional material should be available through suitable courses, such as those for system managers and system programmers. At best, these courses should use on-line documentation instead of hard copy.

Customer Activities

The goal is to support SBT at every major conference planned for FY '89. Trade shows and conferences are a major forum at which the media and influential opinion leaders decide who is serious about a technology.

- Spring and Fall DECUS
- PC Expo
- Microsoft CDROM Conference
- Info '89
- Federal Computer Conference
- DEXPO East
- Communications Network Show
- DECworld '89

Application Centers for Technology it is a major program goal to ensure that the ACTs are capable of demonstrating the product and presenting the program's marketing messages. The goal of the ACTs is to leverage sales of hardware, software, and services. Increasing the effectiveness of the selling effort provides visible evidence of Digital partnership commitment to our customers and improves our image and presence in target marketing. Currently ACTs contain:

- Conference facilities
- Solutions centers
- Demonstration facilities
- Marketing experts
- Field Application Centers

Currently Digital has 14 ACTs in the US, with plans to open 6 more. Europe has 4 ACTs with plans to open 18 more.

6. CDTIP - Pricing Strategy

Pricing and Product Acquisition Key (PAK) Strategy

The pricing and packaging strategy is to provide an annual subscription service for the disk and value added information. Access to text-based courseware, *Digital Press* books, and other information, will be through Product Acquisition Keys. Computer-based courseware (CBI) is not being included in this plan.

Subscription Service

The customer can choose from two alternative subscriptions:

- Disk and value-added information and support service @ 3 times per year
- 2. Disk and value-added information and support service @ 3 times per year and CD Reader

It is expected that first-time users who do not have a CD Reader will purchase option 2 in the first year and option 1 in subsequent years.

The value-added information for the first release of the product is:

- The course catalog
- Curriculum maps
- Product reference manuals
- DECwindows CBI
- Hotline support

Support:

- A hotline telephone support will be available (1-800-____) for technical problems
- Automatic courseware updates for the life of the major version

The subscription price for the options are:

- 300 per disk, per year
- 2. 1500 per disk, per year

Product Acquisition Keys - PAKs

Access to the intellectual property of the disk is through Product Acquisition Keys - PAKs. The first release will have two PAKs: the VMS Course curriculum and *Digital Press* reference books. PAKs are issued for each workstation that requires access to the training and information. Thus, if a customer wants 10 workstations to access training, the LMF will limit the access ten authorized workstations.

PAK prices are determined as follows:

- Course groups are priced per workstation at 10% of combined country list price
- Digital Press book groups are priced at 20% of combined country list price

Under this pricing structure, VMS operating systems that come with a combined CLP of \$6,388.00, will have a PAK price of \$650.00.

The pricing strategy should be compelling in that a customer would license all workstations making training and information available to everybody.

7. BUSINESS PLAN

Market Size

The market size for CDTIP is equal to the workstation market running VMS.

The current installed base of workstations, worldwide, is 40,000 with approximately 25,000 in the U.S. The forecast for FY '89 (including PVAX) is 48,450 worldwide and 27,270 in the U.S. This business plan focuses on the U.S. only, the geographic distribution in Europe and G.I.A. is unknown at this time. The Accumulated installed base in the U.S. by the end of FY '89 is estimated at \$48,000.

Market Segmentation

As of the end of Q3, FY'88, the U.S. industry splits were:

- Basic industries @ 67.88%
- Federal government @ 8.68%
- Service industries @ 22.02%

Compared with FY'87, the federal government was the fastest growing sector at 28%. In individual industries, business services grew the fastest at 205%. Engineering, lab and telecom at 10%.

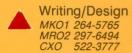
	40000			
Ship Data	FY89	FY90	FY91	FY92
Forecast (K units)	27.25	48.85	71.0	89.0
Installed base	48.0	93.0	164.0	253.0
% VMS	41.0	79.0	140.0	215.0
Available market	410 (1%)	3950 (5%)	11,200 (8%) 21500 (10%)	
Revenue	FY89	FY90	FY91	FY92
Subscriptions (Assuming an av	verage numl	ber of workst	ations per	subscription = 10)
Number of subscriptions	41	395	1,120	21,500
Revenue at \$300 per sub- scription	.012	.12	.34	.77
P.A.K.s				
Number of PAKs per disk	2	5	9	16
Penetration	2	2.5	3.0	3.0
Number of PAKs	820	9875	33600	64500
Revenue at 350 per PAK (\$M)	.287	3.46	11.78	22.57
Total revenue	.299	3.58	12.12	23.34
Engineering	.75	1.5	2.7	5.0 /01
Marketing and Sales	.30	.7	1.5	2.3
G & A (7% Nor)	.02	.24	.84	1.6
Total cost	1.07	2.44	5.04	8.9
Margin	77	1.14	7.08	14.44
%		31.7	58.4	61.9

^{(*}All revenue is in millions of dollars.)

8. IMPLEMENTATION SCHEDULE

(To be supplied.)

E D U C A T I O N A L S E R V I C E S



Direct Marketing MKO1 264-5765

Publishing
BUO 249-4361
RKA 830-4593
Electronic Publishing
BUO 249-4807

Photography PKO3 223-2366 MKO1 264-5379

Computer Images BUO 249-4621 RKA 830-4593

MKO1 264-5765 MRO2 297-6494 Production BUO 249-4032 PKO3 223-5587* RKA 830-4593 CXO 522-3777

Audio/Video/Film

Broadcasting
BUO 249-4739

Events

MKO1 264-5765

MRO2 297-6494

Speaker Services

MKO1 264-5765

Media Libraries A/V Library MKO1 264-5765 Photo Library PKO3 223-6763

Microfiche
Publishing
FPO 283-6282

Capabilities

ing, Project Management, Promotional Writing, Graphic Design, Speechwriting, Mechanical Production

Communication Consult-

Media Communications Group

Products

XXXXX XXXXX XXXXX XXXXX XXXXX

Sales Literature, Brochures, Articles, Guides, Posters, Illustrations, Exhibits, Slide Shows Conversion of Information to Microfiche, Microfiche Distribution, Microfiche Library Design

Field Service Documentation, Microfiche Libraries

Media Duplication/ Distribution Slide Shows, Videotapes, Audio Recordings, Slides, Photographs

Event Management, Theme Development, Publicity, Speechwriting, Speaker Coaching, Staging

Invitations, Signage, Product Announcements, Sales/Award Meetings, Seminars, Conferences, Trade Shows, Exhibits

Interactive Television Programming on Digital Video Network (DVN) Training Programs, Customer Seminars, Product Announcements

A/V Consulting, Project Management, Scriptwriting, Producing, Production and Post-Production, Video Documentation, *A.V. Rentals Product Announcements, Testimonials, Demos, Motivational/Training Videos, Films, and Audio Cassettes

Design and Production of Computer Generated Graphics, Special Effects for Slides, Video, Film, and Print, Animation 35mm Slides, Slide Shows, 4" X 5" Transparencies, Business Graphics, Animated Video/Film

Location/Studio Photography, Slide Duplication, Optical Special Effects, Graphic Arts Product Photographs, Portraits, Optical Slides, Overheads, Stats, Line Negatives, Prints (B&W/ Color)

Project Management, Editing, Graphic Design, Electronic Page Makeup, Typesetting, Color Prepress, Elec. Pub. Needs Analysis, Multilingual Publishing Brochures, Magazines, Handbooks, Presentations, Catalogs, Posters, Technical and Business Publishing, Translated Documents

Marketing Communication Consulting, Direct Mail, Mailing List Selection, Fulfillment Coordination, Lead Generation, Measurement/Tracking Catalogs, Promotional Literature, Self-mailers, Sales Initiated Campaigns

Communication Consulting, Project Management, Promotional Writing, Graphic Design, Speechwriting, Mechanical Production

Sales Literature, Brochures, Articles, Guides, Posters, Illustrations, Exhibits, Slide Shows

Count on us.

Whether you need to: promote one product or a range of products; lead a seminar; produce a poster, brochure, or catalog; explain technical service benefits to nontechnical customers; address an audience of 30 or 3,000; duplicate a set of slides; or create a sales training film, you can count on the Media Communications Group to help you achieve your goals.

Add up the benefits:

Professional Consulting

We listen carefully to your needs to develop the communication strategies that will help you reach your audience.

We build successful solutions in partnership with you—combining your technical or marketing expertise with our expertise in communications. Your goals are analyzed by a media team to maximize the value of our services to you. We bring the advantage of years of experience serving Digital's communication needs, with in-depth knowledge of its products and services, organizational structure, and marketing strategies.

△ Accountability

We recommend the most costeffective communications for your needs. Your projects are managed in their entirety. Our project plans include clearly stated objectives, budgets, and schedules for your approval.

△ Flexibility

Our skilled writers, designers, producers, and other professionals will help you with a wide variety of communication projects—at any stage. We have the resources to handle short-term projects such as brochures, product photographs, and letters. We also manage sales campaigns, international presentations, and other long-term projects.

MCG's vendor services extend our capabilities by locating the extra resources you need and interfacing with the vendor throughout your project to guarantee the quality of the finished product.

△ Quality

The sole objective of our creative efforts is to help Digital sell its products and services. This commitment assures you that the communications we produce will reflect Digital's high standards of quality and complement corporate marketing goals.

Measures of Success

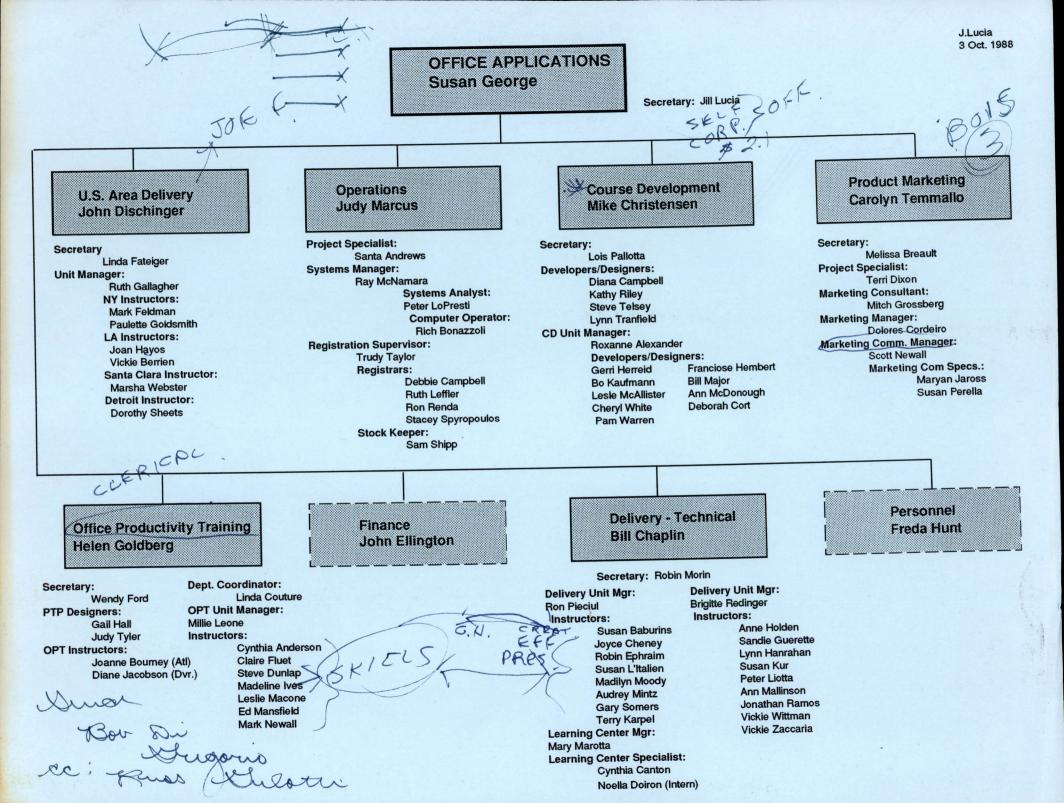
For many of your communication projects, we can build in ways to track the response to your message. You may wish to measure the impact of your communication on a particular market, or approximate the sales generated from a trade show or catalog. We have the resources to help you analyze your results so you can plan on increased success.

The Final Numbers

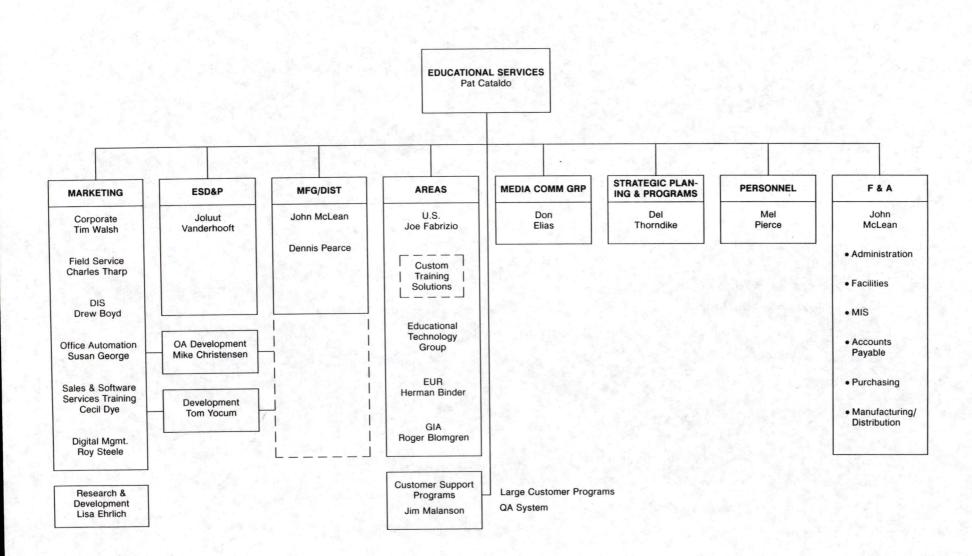
We are located in many Digital facilities including: Bedford, Merrimack, Marlboro, Maynard, Stow, Burlington, Colorado Springs, Atlanta, and Reading, England. Call us today at any of the DTNs listed on the front of this card.

Media
Communications
Group

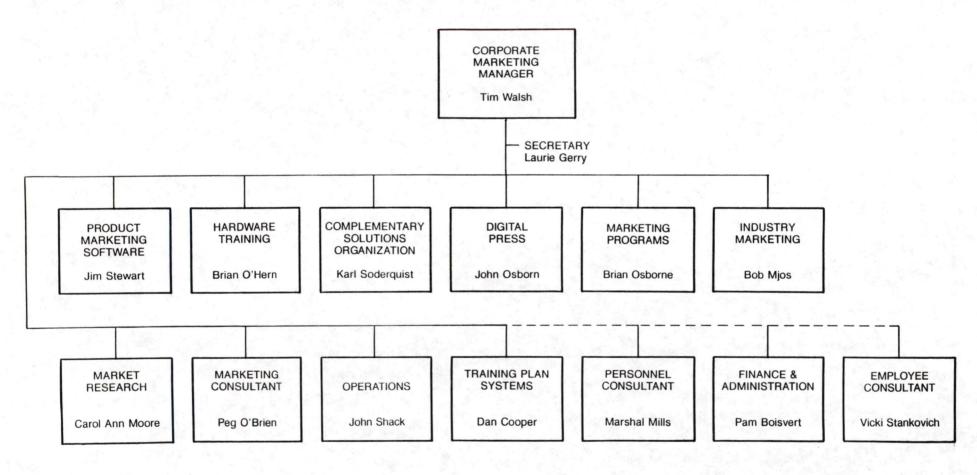
digital™



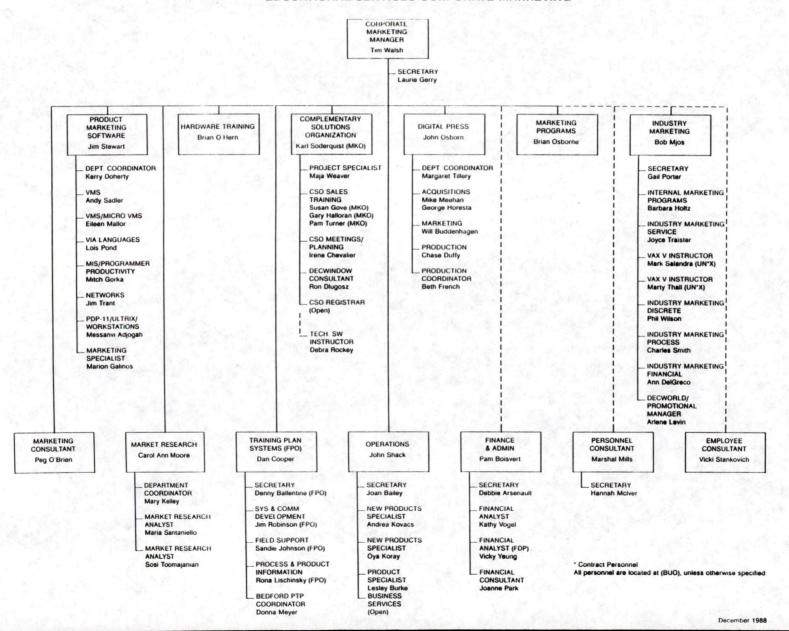
c:/usr/sys/margaret/ today/ PB67726.overhd
Tue Sep 27 04:27:52 1988
for margaret/ terry



EDUCATIONAL SERVICES CORPORATE MARKETING



EDUCATIONAL SERVICES CORPORATE MARKETING



Tim Walsh (2/9/88 Heed to Xistron from Struepipes to interested organization. Put bushout under Tun-es OA. Mille doing frimanly US wish. Sender-egurix VMS = 60% of all Cust TNS. Here Rest.

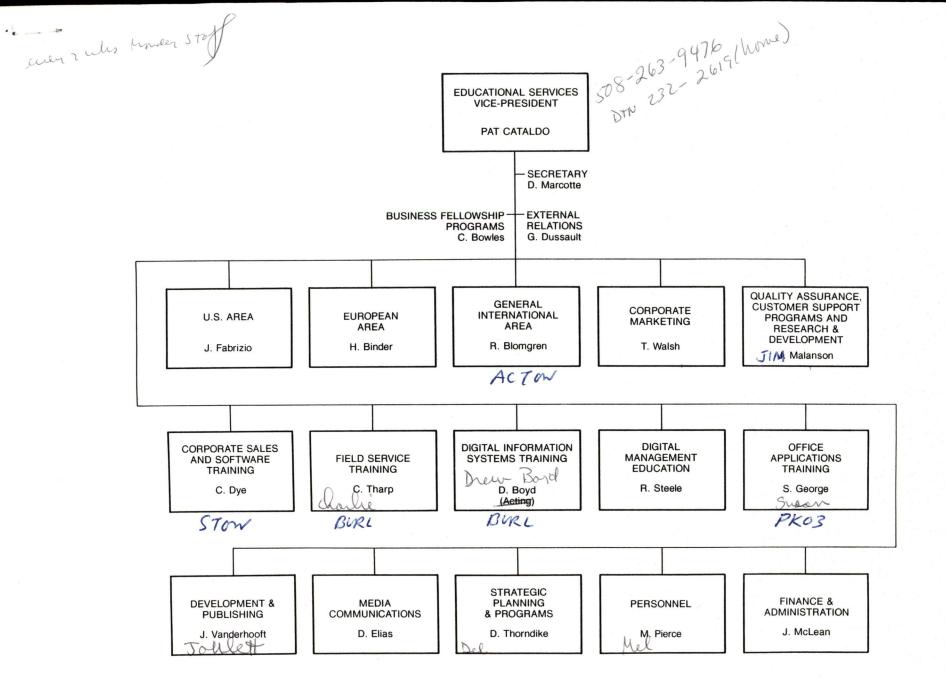
Wate to Herman Bender re: expense uneare an latest flash. Dod 748 PFCS+ 77.4 New Flash 78.2.

Zook NOR mureas. where is 914 more for ploz?

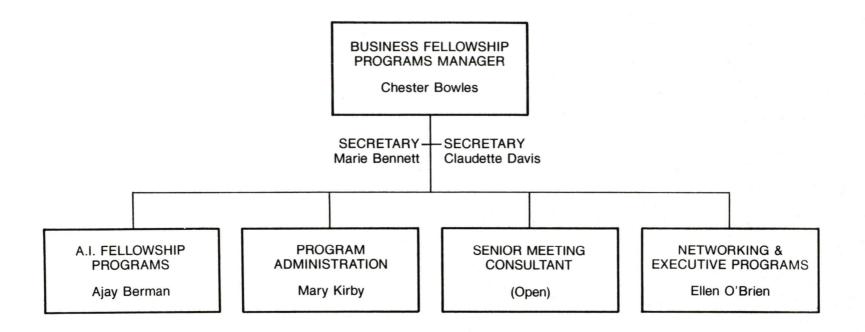
Note on Ploz > By Jan 1'ST

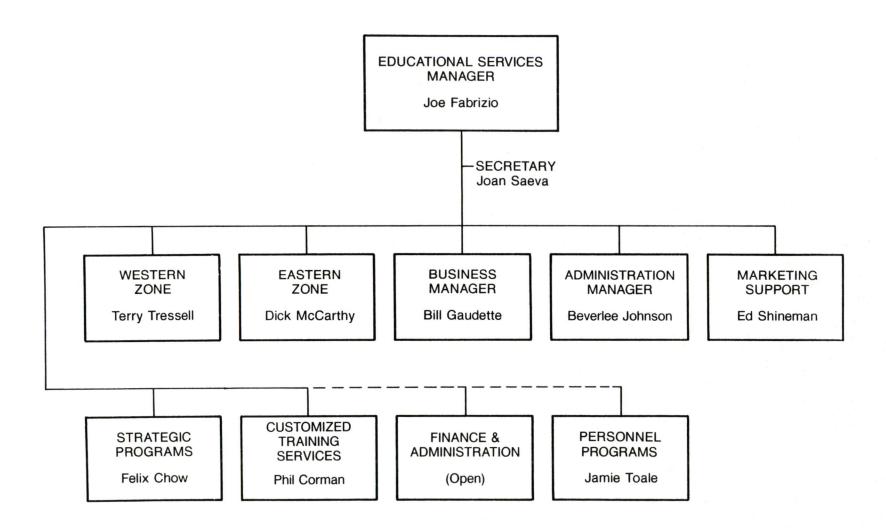
Note on CDPM come duelomat lepure. Held at apparate.

Dupart to flash? Dandar his dicision? N' running ruly is a problem. Loses of atenty drea fets three no development cost, strould they? Susan Jense assig prod try. To Bruin product to all groups mot just a sprafic furting and product some formation for John Elies - CSS use of MCS Sides outside. Why?

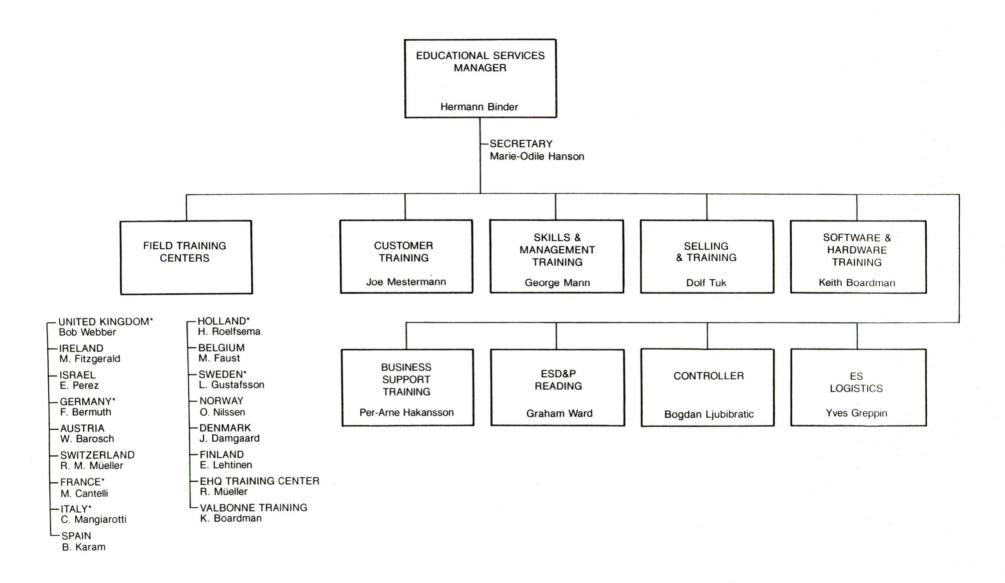


BUSINESS FELLOWSHIP PROGRAMS

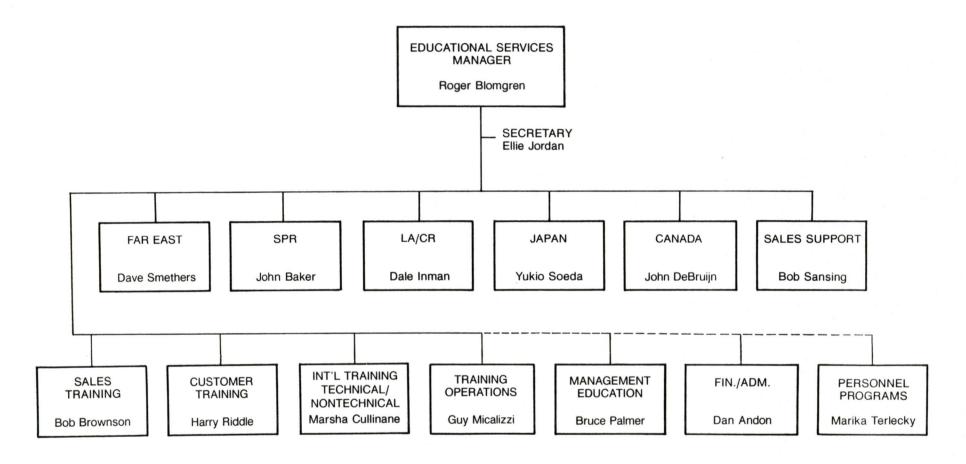




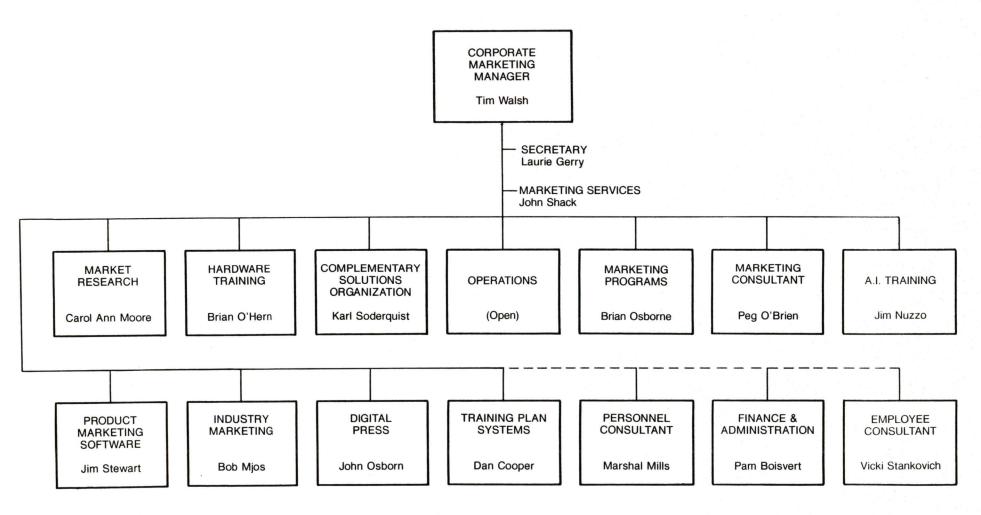
EUROPEAN AREA



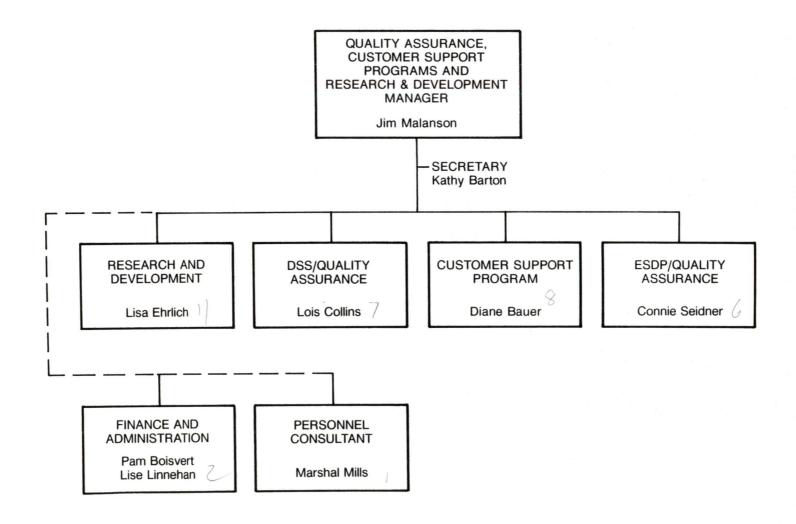
GENERAL INTERNATIONAL AREA



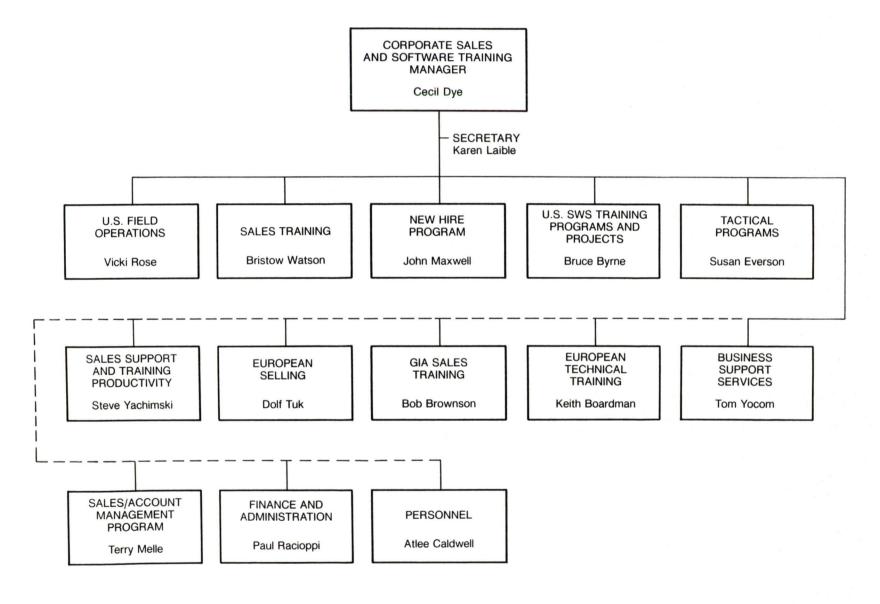
EDUCATIONAL SERVICES CORPORATE MARKETING

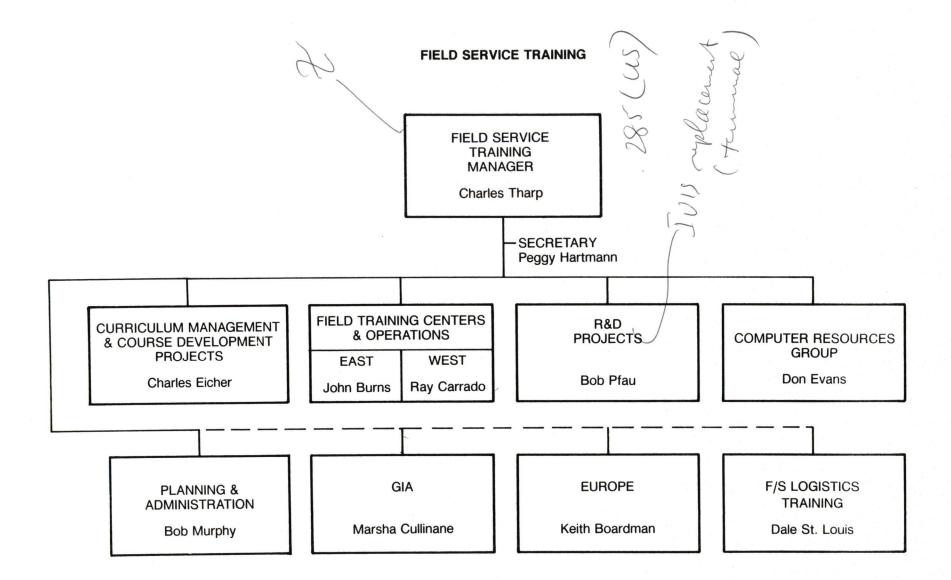


QUALITY ASSURANCE, CUSTOMER SUPPORT PROGRAMS AND RESEARCH & DEVELOPMENT

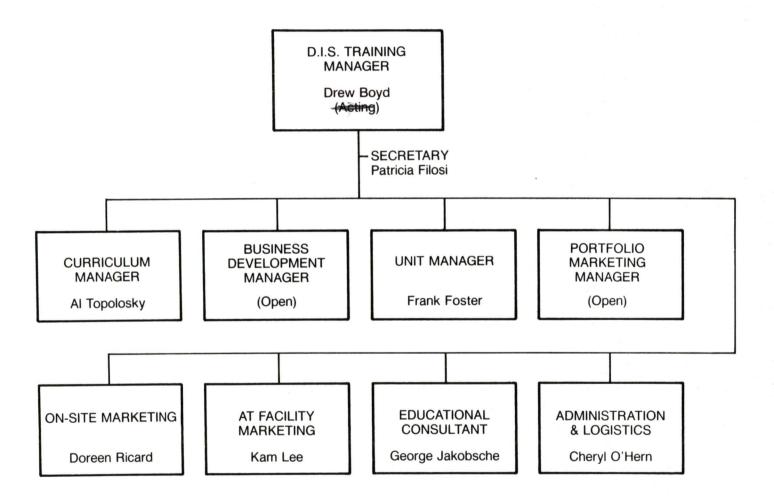


CORPORATE SALES AND SOFTWARE TRAINING

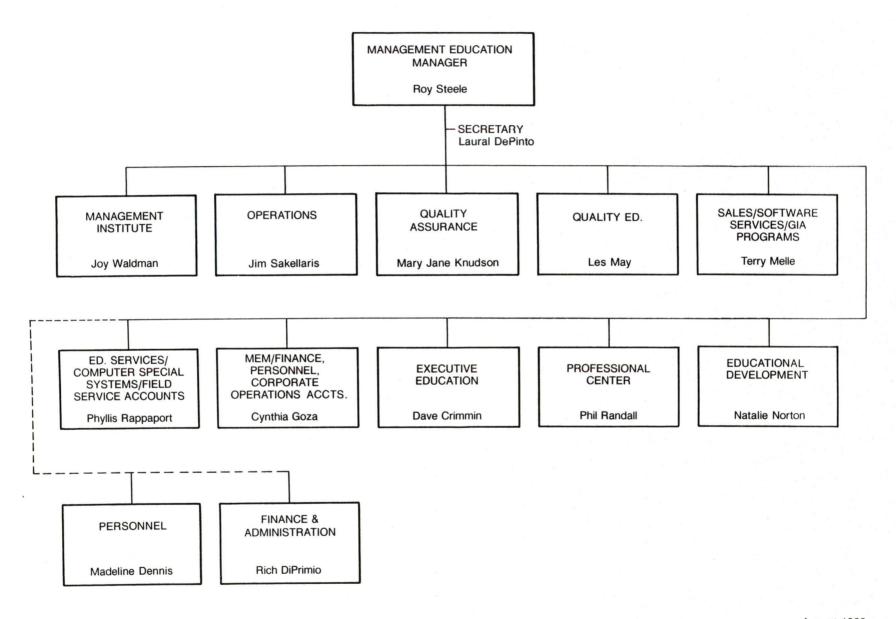




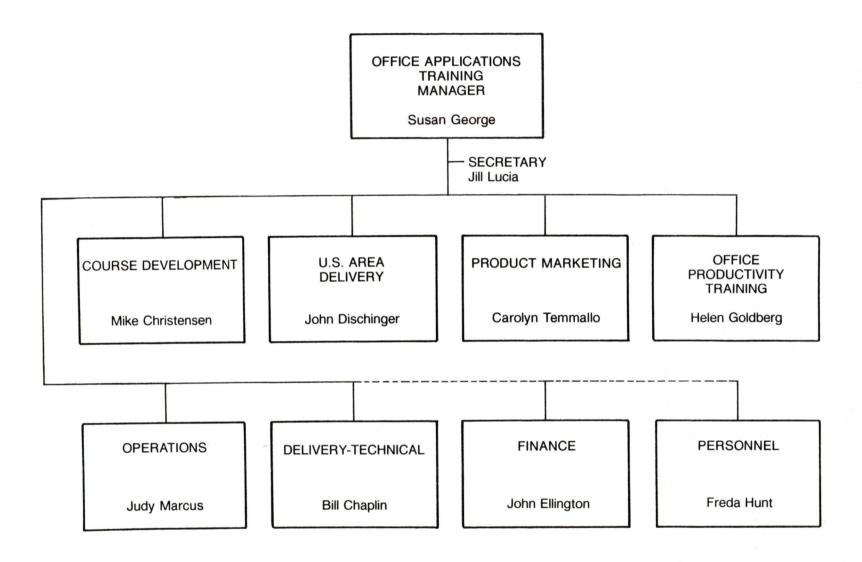
DIGITAL INFORMATION SYSTEMS TRAINING



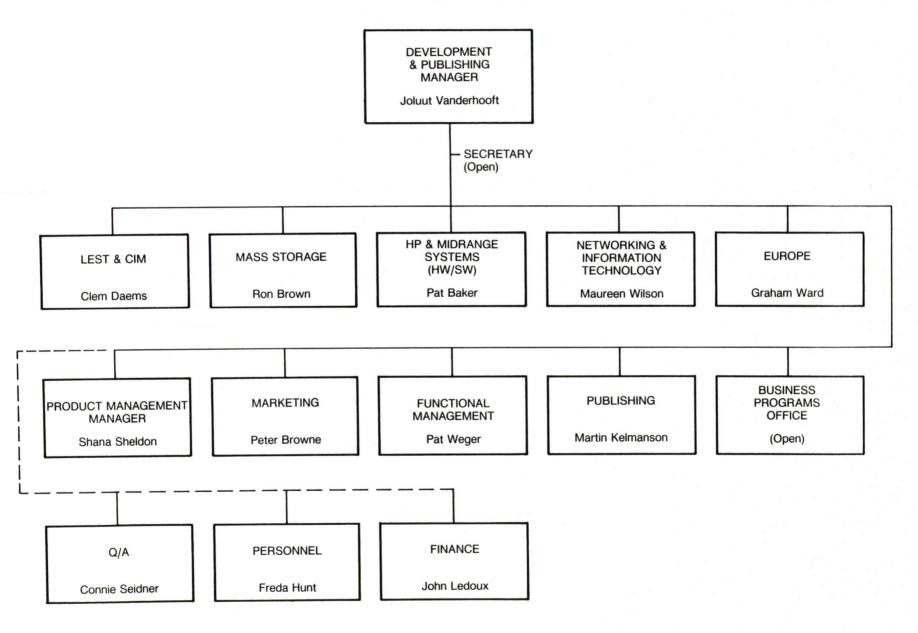
DIGITAL MANAGEMENT EDUCATION



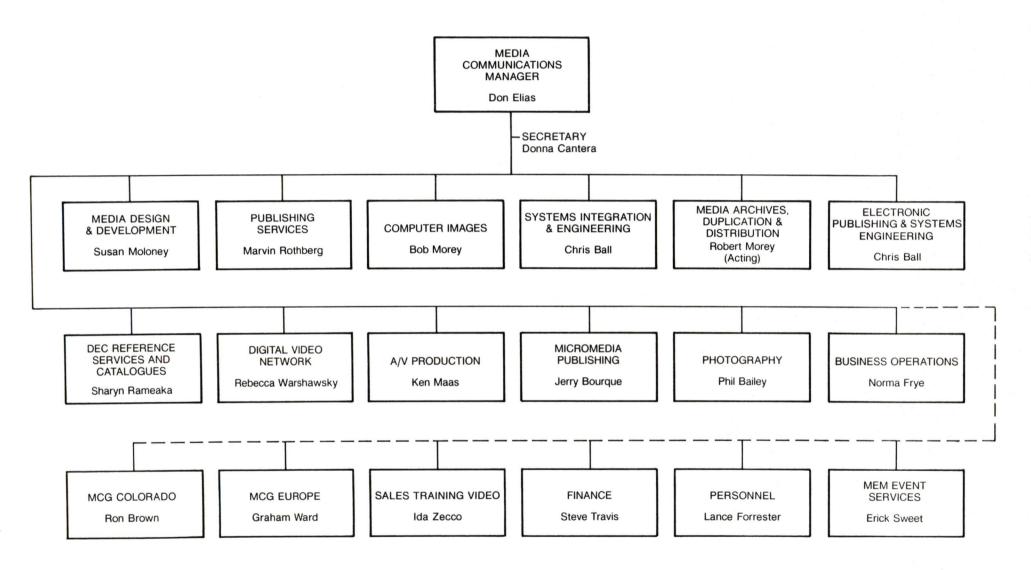
OFFICE APPLICATIONS TRAINING



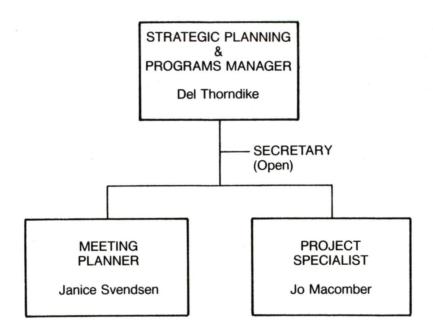
DEVELOPMENT & PUBLISHING



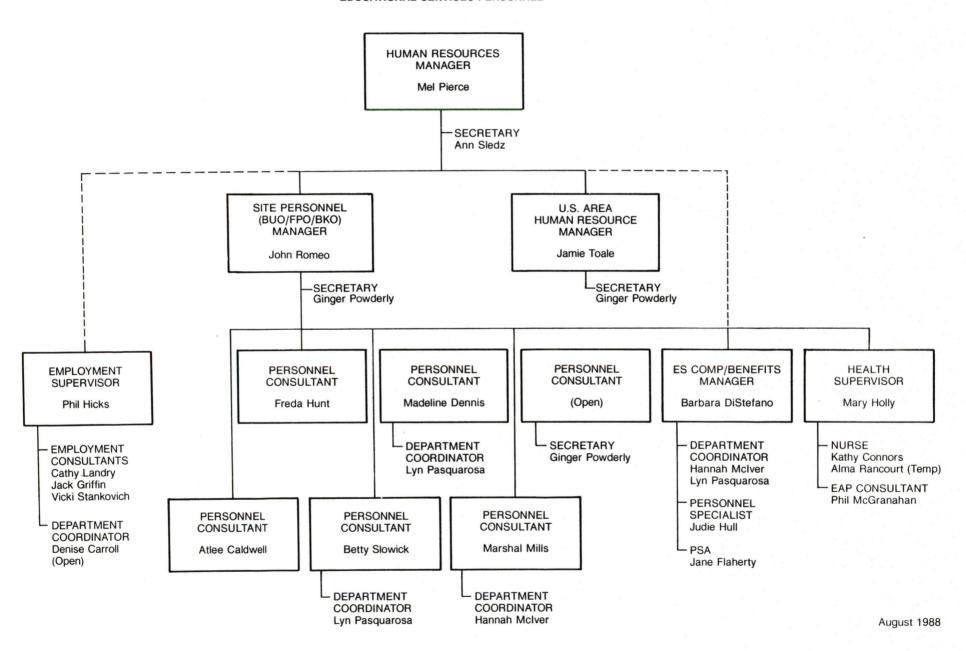
MEDIA COMMUNICATIONS



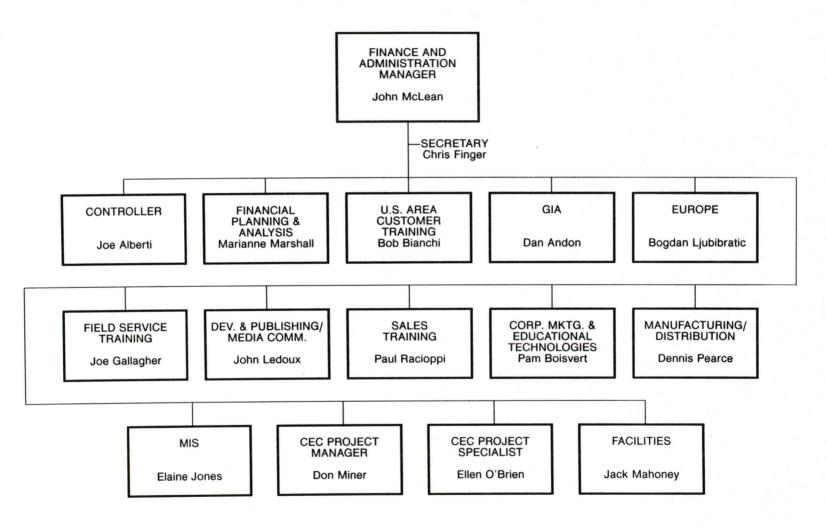
EDUCATIONAL SERVICES STRATEGIC PLANNING & PROGRAMS



EDUCATIONAL SERVICES PERSONNEL



EDUCATIONAL SERVICES FINANCE & ADMINISTRATION



INTEROFFICE MEMORANDUM

Date:

22-Nov-1988 11:22am GMT

From:

DOROTHY MARCOTTE

MARCOTTE.DOTTIE

Dept:

EDUCATIONAL SERVICES

Tel No:

249-4291

TO: Remote Addressee

(RUSS GULLOTTI @NPO)

Subject:	ESMC	STAFF	MEETINGS
----------	-------------	-------	----------

November 28	Bedford/Middlesex	Room	Bi-Weekly
December 19	Bedford/Middlesex	Room	Bi-Weekly
January 9	Bedford/Middlesex	Room	Bi-Weekly
January 23	Bedford/Middlesex	Room	Bi-Weekly
February 6-8 24 20 -23	Place TBD		Quarterly
February 9th	Place TBD		Expanded Staff
February 27	Bedford/Middlesex	Room	Bi-Weekly
March 13	Bedford/Middlesex	Room	Bi-Weekly
March 27	Bedford/Middlesex	Room	Bi-Weekly
April 10	Bedford/Middlesex	Room	Bi-Weekly
April 24	Bedford/Middlesex	Room	Bi-Weekly
May 15-17	Place TBD		Quarterly
May 18	Place TBD		Expanded
June 5	Bedford/Middlesex	Room	Bi-Weekly
June 19	Bedford/Middlesex	Room	Bi-Weekly

INTEROFFICE MEMORANDUM

Date:

23-Nov-1988 03:33am EST

From:

EDMOND F. VAIL III
VAIL.EDMOND AT A1 at BUFFER a

t ogo

Dept:

PROFESSIONAL SERVICES

Tel No:

276-9058

TO: RUSS GULLOTTI @NPO

(GULLOTTI AT A1 AT WOODRO AT MKO)

Subject: RE: NEW HATS

Russ,

I have made and discussed the following observations with Pat in the past as part of my Metrics analyses.

There is an interesting, but not perfect analogy, to DECs problems in the hardware world vs PCs and Workstations.

In order to cover the real and considerable fixed costs of running Bedford and the Field Training Centers, ES has had to emphasize the more easily sold and higher priced lecture/lab type of Training. This is reflected in the ESMC Metrics set which highlights Course Weeks, Class Size etc. In the meantime, our customers (both externally and internally, like Field Service) are naturally trying to maximize their training Dollars investment and are looking to get effective training at the minimal total cost: travel, lost time, direct costs, etc. Using our Field Service Branch Managers as a good prototype of sharp, cheap

customers, they are voting with their wallets, for small, short classes, close by, scheduled when they want them. Not the kind of low cost, flexible and easily

sold stuff DEC is good at ala' PCs. Especially when the same thorough, slow and expensive Course Development processes are used for offerings that require fast, adequate, and cheap CD execution. So Field Service, like our customers, uses ES for only DEC-unique training and sources the rest with their own training function or from lean, hungry external vendors.

I realize that ES is starting to move in this direction (on site training, Seminars, etc) now but it will require a major shift of Assets, Metrics and Culture to rebalance the business model. Particularly if ES is going to provide value-added support for the wide variety of types of Consulting/Training required across the SIB Sales & Delivery cycle. (Note that the same ES individual resource could theoretically be used as a Sales Support Person (DEC SIB, HDW/SW cost), Consultant (Revenue) or Teacher (Revenue) in the same week. Our stovepipes (orgs/metrics) prevent this type of cost minimizing resource utilization from happening).

Be happy to expand/elaborate if you find this useful. BTW, am working on the issues of cross-organizational metrics/synergy that you suggested; have a viable

model, started testing it with Corporate Accounts, so far so good, next stop (with their sponsorship) is US Sales.

INTEROFFICE MEMORANDUM

Date:

21-Nov-1988 02:29pm GMT

From:

Del Thorndike

THORNDIKE.DEL

Dept:

Strategic Planning

Tel No:

249-1446

TO: Remote Addressee

(PAT CATALDO @BUO)

Subject: Quarterly Minutes

Pat,

Attached you will find a copy of the Quarterly Minutes. If you would like copies of the presentation materials, please let Jan know. Please call me tonight if you have corrections for your 10:00 a.m. meeting with Russ Gullotti.

Besides making these minutes accurate and complete, we have expanded on the content of these minutes to facilitate Russ in his Educational Services learning experience.

DRAFT for R. Gullotti

MINUTES OF ESMC QUARTERLY NOVEMBER 14-16, 1988

MONDAY, ACTON ROOM, MAYNARD, MA

PRESENT: Jim Malanson, Tim Walsh, Charlie Tharp, Harry Riddle, Don Elias, Hermann Binder, Susan George, Drew Boyd, Mel Pierce, Joluut Vanderhooft, Del Thorndike, Cecil Dye, Joe Fabrizio, Harry Riddle for Roger Blomgren

PAT'S OPENING REMARKS:

- o A special meeting to discuss budgets will be announced for February or March. John and Jan will work on a schedule.
- o Ken Olson is involved with a contract with Prentice-Hall and DECPress which will be signed soon.
- o Regarding productivity and cost controls, base case decisions are being made. Variable costs are being looked at carefully.
- o Pat described the scope of his new project for SSMI, which is primarily to focus on how we do business in the future. The project will be for 90 days, and includes efficiency and effectiveness plans for 1990, looking at SSMI organization, up and down, and cost structures. At the end, Pat will make recommendations on process, procedures, and operations as well as recommendations to Senior Managers on how to run their businesses. The project team will include Personnel, Finance, OD and Management Sciences. Pat will work from Stow or West Concord for this time period.
- o Don Busick has asked Russ Gullotti to help out in Pat's absence, and he will be spending 50% of his time on Educational Services business.
- o Pat will be involved in E.S. strategic process including:
 1) goal setting process; 2) Quarterly Forums. Pat asked
 ESMC for their input on how he could be
 involved during this time. Day to day business should go to
 Russ. Members can copy Pat on information, however, especially
 news of 'big wins'. Pat will touch base with Dottie often.
- o Areas of concern for Pat's project include: 1) lights on in buildings at night; 2) computers in employees homes; 3) charges for DECmail; 4) efficiency of back-up systems for computers; 5) T-shirts, special badges, incentives, etc.; 6) 43 other training groups in company; 7) learning centers and possible inefficiency; 8) DTN lines at home. Members should look outside their own area when looking for ways to cut costs.
- o Petty Cash no longer checks for accuracy of information on forms, only accuracy of numbers. Cost center manager will be

held accountable for correct data. This change was implemented for audit reasons.

QA UPDATE - JIM MALANSON

- O There was a discussion on QA information being submitted in a timely manner as well as readable so that ratings will be accurate. This will be a focus for Pat who will look at both the QA group as well as Ed Services groups. QA group should try to get 99-100% of data returned on time for roll-up.
- o There was a discussion on how to get better return of SOFs after class completion. The group that develops a course is the one that gets QA ratings, not the group that delivers.
- *A.I. Jim will see that the Master File is changed so that delivery group gets credit for QA. It needs to be broken out by U.S. vs. worldwide.
 - O Worldwide Class Rating has remained unchanged at 89% for past 4 Quarters.
 - Europe QA rating increased 4% points over 8Q1
 - GIA QA rating remained constant for last 3 Quarters
 - US class rating exceeded new QA standard (90%) for 4 consecutive Quarters.
 - o Joluut and Pat Weger went to NY to view a CBT product developed by a ElRon. One more team, consisting of someone from Corporate Marketing, OA, and R&D will go to look at it from a potential business standpoint.
 - Tim would like a formalized process on how to respond to these requests. Issue is we don't have one development group.

OVERVIEW OF INDUSTRY MARKETING AND TRENDS - TIM WALSH

- o Trends: 1. Product, 2) Industry Growth, 3) User Exectations, 4) Standards.
- o Product Trends:

Price/Performance <u>FY89</u> <u>FY92</u> <u>FY95</u> MIPS: 20 1000 2000

Power Workstations: parallel processing, networked environment, easy to use

Product Life-Cycle: replace 70% by Q1/FY90, 2-3 turnovers next 3 years

o Digital's Strategy!
1. Integrating the Enterprise

- 2. Digital's "Systems" Architecture
- 3. Approach to Standards
- 4. Strategic Alliances
- 5. Comprehensive Services

o E.S. Directions:

- i. Current conditions:
 - -VMS is maturing
 - -ULTRIX/UNIX is growing
 - -Product Life-Cycle Pressure
 - -Multi-Vendor HW/SW ENVIRONMENT
 - -Ease of use

2. Recommendations:

- -Use onsite to our advantage
- -Establish competency centers
- -Marketing
- -Cross-functional team

OFFICE PRODUCTIVITY - CAROLYN TEMMALLO

- o Expecting a 38% increase in OA revenue for FY89.
- o There was a discussion on bundling of office products in U.S. and Europe.
- *A.I. John Shack is writing up a legal agreement for bundling. There's an \$800K opportunity in Europe. Hermann Binder will follow through on this by December 19.
 - o Carolyn gave the product plan for FY89, the investment and return for All-In-1, Electronic Publishing, PCSA, DECwindows, EPIC, CTP (T-T-T).

INDUSTRY APPLICATION TRAINING - BOB MJOS

- o Bob presented the FY89 strategy to:
 - target specific industry training opportunities
 - hire industry application expertise
 - establish 3rd party training alliances
 - establish market focused competency centers
 - drive focused marketing programs
- o FY89 opportunities:
 - telecommunications: VAX System V
 - Engineering: CAD/CAM Training
 - Financial Services: DECTrade
 - Manufacturing: CIM Seminars
- *A.I. There was a discussion on the pricing model, and Bob Mjos will check on consistency of pricing on all courses and get back to ESMC.

BASE PRODUCTS - JIM STEWART

- o Jim presented Digital Strategy & Key Programs:
 - Workstations
 - Networks and OSI
 - CASE
 - Transaction Processing (TP) and Data Management
 - Operating Systems
 - Desktop
- o Educational Services Strategy:
 - Maintenance of existing courses
 - High level skill and management training
 - Optimize investments through co-funding and multi-format projects
- o VMS Operating System:
 - Version 5 update
 - DECwindows support
 - Vector and multi-processing
 - Follow-ons for popular courses
- *A.1. CASE. multi-format L/L and TBI for product specific courses, was discussed, and Pat asked that Jim furnish ESMC and him with the issues before going to Bill Reating to ask for support.
- *A.I. Pat asked that the areas take 3 presentations (1. OA, 2. technical and 3. industry) and make sure we have clarity on: 1) areas understanding of what's being work on: 2) Europe, GIA and U.S. should decide and agree on what E.S. should focus on. Pat will assume this will happen unless he hears otherwise. ESMC should let Pat know if they see something that's not an immediate priority.
- *A.I. On reassignment of an employee or redeployment, Pat asked Mel to come back with a policy on transferring of employees. Each ESMC member will talk to ESMC before transferring of E.S. employees within E.S.

FINANCIAL REVIEW - JOHN MCLEAN AND ESMC MEMBERS

- o John McLean presented E.S. worldwide customer training, activity, internal training and support expense as well as worldwide NOR, NOR/002, TCCE, and BCM%. E.S. missed margin by \$1.9 million.
- o Each ESMC member gave their own Ql results and forecast for Q2 to the group.

OPEN DISCUSSION

- o Discussion around capital equipment and how that impacts training.
- o Hermann asked how do we get an integrated curriculum and budget plan.

o The Investment Committee, consisting of Charlie, Joluut, Del, Susan, Jim. and Cecil, is working on a strategy to present a plan to anyone in Digital on product development expenses and maximization of development dollars. It's international in focus.

feel DECwindows philosophy is where they need to concentrate.

*A.I. Investment Committee will meet 14-15 December on strategy for budgets for next year. set up by Tim Walsh is in charge of set up.

DECWINDOWS TRAINING REVIEW - JIM STEWART, CAROLYN TEMMALLO

- o Jim presented DECwindows Training Review:
 - Digital Strategy
 - Educational Services Strategy
 - Curricula Overview
 - Product Roll-out Plans
 - Course Introduction Plans
- o Carolyn presented DECwindows applications:
 - Widespread availability of OA to technical/non-technical workstation users
 - Planned bundling of DECwindows with VMS V5.2
 - EPIC/Writer provides upgrade path enabling compound document editing for WPS-PLUS user
 - EPIC/Info provides decision support tools for technical environment

There was a discussion around Educational Services marketing of training at time of sale. Tim would like Carolyn and Jim to work together on their products, and there needs to be a person from Europe to work with them. Strategy needs to be in place by January 10, the DEC Top announcement date. The request for capital equipment to deliver this training, should be in queue now as it takes 18 months to get it.

ESMC QUARTERLY TUESDAY, NOVEMBER 15, 1988 ACTON ROOM, MAYNARD, MA

Attendees: Pat, Tim, Cecil, Joe, Drew, Harry Riddle, Pam Boisvert, Jim, Del, Hermann, Don, Joluut, and Susan

OPENING REMARKS - PAT CATALDO

- o John McLean is in Europe attending Fishburn's Finance Committee meeting.
- o Marianne Marshall brought the Forecast to Pat.
- o Pat said each ESMC member will be given new \$ numbers for budget target. Profit model will change.
- o Before Pat takes his new assignment, he will work with Joe, Roger and Tim on model for revenue and profit for customer business. Looks like Headquarters expenses will be too high. All expenditures are 61% in the Field.
- o Pat suggested to Joe that he look at filling some of his vacancies with temporary assignments, which could be short term opportunities for employees.

EUROPEAN OPERATIONS REVIEW - HERMANN BINDER

- o Hermann presented the Enropean Operations Review which covered: mission, objectives, organizational chart, facts, performance, training (customer, technical, skills and management, selling, and business support), risks and opportunities.
- o There was a discussion on modularity. Educational Services groups should have a consistent understanding of what it means.
- o There was a discussion on whether European E.S. revenue will go down this year if they don't get capital equipment.
- *A.I. Hermann will ask each country to give him specific data on what their capital equipment needs are so that Pat will be fully informed before he requests it.

R & D PRESENTATION - JIM MALANSON

- o Jim presented the scope of projects in Engineering including: Authoring, Environment, Technical Advisory, information, audience response, XTrain, visiting researcher and university relationship.
- o Jim will do a process and determine the amounts to be funded by each of the E.S. organizations for R&D. Pat believes R&D budget should be petitioned approximately 25% for longer term

projects that have a strategic focus, i.e., Authoring, and that 75% should be allotted to deliverables that would be individually funded.

DESK TOP STRATEGY - MATT KOCHAN

- o 3 Phase Program for Desk Top Strategy:
 - 1) Starts 11/30-12/29 internal conditioning and education for Digital people
 - a) senior management will attend Desk Top University
 - in Littleton for 5 sessions of L/L.
 - b) detailed 2-week train on all the products
 - 2) 12/19-1/13 key press will be informed, and on 1/3 will do same for customers
 1/9 details
 1/10 actual announcement
 - 3) Starting in January, 10-12 universities for customers in Littleton
 - 4) Second part of the 'road show' will be taken to each of the Areas.
- o Digital's Desktop Strategy:
 - Key component of Enterprise-wide computing strategy
 - Builds on established strengths
 - Solves business problems
 - Easy to use
 - The strategy for the organization
- o Computing evolution: Batch > Timesharing > Enterprise-wide
- o Products include: VAXstation entry level workstation; VAXstation high end workstation; VAXstation serverstation; DECstation UNIX/RISC workstation series; VAXstation SMP/3D; Low end DECstation personal computer; mid-range DECstation personal computer; High-end DECstation personal computer
- o The Desk Top market in 1991: 40% of worldwide market, and \$60 billion in revenue.
- o Tim said we do not have a desk top training strategy in E.S. Would like to do one, then revisit Matt Kochan's world to see if it is right.
- *A.I. Tim will assign a resource to define a customer training strategy for E.S. and bring back plan by 11/30.

STRATEGIC PLANNING - DEL THORNDIKE

o Del reviewed Planning Process and Gap Analysis work. She presented several opportunities for E.S. to improve productivity.

- Overlap of responsibilities identified in customer training.
- Can U.S. Area do all customer training? Discussed overlap of responsibilities identified in customer training.
- Problem between strategic and tactical and whether one group can do both.
- Improve the curriculum development process. Investment Review Committee will work on curriculum development.
- 3. A/V and production resources. Should there be one focus?
- *A.I. Don to make a proposal on career pathing or opportunities for the dedicated resources in these groups.
 - 4. Duplicate publishing capabilities should there be one central focus?
- *A.I. Don to define publishing and how it's being used, make recommendations concerning the optimization of these resources.
 - 5. Multi course development groups should we have one focus or matrixed reporting?
- *A.I. Joiuut will prepare a proposal by the end of November for ESMC of what would be involved, expected gains, benefits and linkages while keeping the client/product focus.
 - A consistent E.S. review process to review contractors and vendors.
- *A.I. Don will complete the MCG vendor/contract review process presently being done and then look at the overall E.S. needs in collaboration with Purchasing and report back to ESMC by December 19th.
- *A.I. Tim and Jim will have John Shack come to ESMC and discuss use of contractors and vendors by December 19.
- *A.I. Jim will take a copy of a Proposal Process used in CSP and send to Bill McHale telling him of our capability in E.S. He will ask if there is anything we can do to help them spruce up their customer proposals.

HARMONY: CDROM - BRIAN OSBORNE

- O There was a demonstration on this product's capabilities to the ESMC.
- Brian presented current conditions, product definition, product demonstration, market strategy, and summary.

- o Digital is predicted to be #1 in workstations by end of fiscal year.
- o Discussion on the impact of the product on PL002 and 03.
- o Discussion on approximately \$1/2 million unfunded (Tim says he has \$685 thousand from Charlie, Drew, Channels, and Cecil.)
- o Pat asked each member if they would invest in HARMONY. Discussion followed with each member's rational.

*A.I. Drop dead date for project is 12/19. ESMC will vote at that time. Tim will talk to Bill Keating about internal funders. Pat will talk to Russ Gullotti. He will set up time with Don Busick before 12/19. Tim should recheck Brian's numbers.

ESMC QUARTERLY WEDNESDAY, NOVEMBER 16, 1988 MIDDLESEX ROOM, BEDFORD, MA

Attendees: Joluut, Jim, Drew, Hermann, Del, Roy, Pam Boisvert, Harry Riddle, Susan, Charlie, Tim, Mel

OPENING REMARKS - PAT CATALDO

- o Pat will present Thursday at the Service Awards Banquet at the Framingham Sheraton-Tara to honor 10, 15, and 20 year employees.
- *A.I. Mel Pierce will check into and report back to Pat on whether participants in the Awards Banquet have a choice of locations that they can attend.
 - o Pat passed out a paper on Stategic Directions for Educational Services.

PRODUCT INVESTMENT COMMITTEE - TIM WALSH

- o Objectives are:
 - Optimize E/S investment through sharing, eliminating redundancy, and planning ahead
 - Target strategic curriculums Digital and cross functional
 - Consolidated Plan for E/S, and PBU's and marketing groups
 - Integrate Areas (TBD)
 - Strategic direction
- o Membership includes ESMC members from Corporate, FS, OA, SSWS, DIS, ESDF, CSP/R&D, and Strategic Planning.
- o The problem the committee is trying to solve is: 1) redundancy in development and getting people more connected; 2) consolidated piece of work that supports this topic area for the company, and we can take it to the customer.
- o Pat read a pre-sales educational courses memo from Ken Olsen on delivering technical courses with E.S. expertise. Pat believes this is an open invitation for us to help.

REVENUE/TRANSFER ROYALTY - HERMANN BINDER

- o Situation:
 - PL002 revenue is 2% of business in Europe.
 - potential is higher
 - has strategic importance
 - little incentive to sell as long as PL003 strong
 - overpriced to make local margins
- o We need to change this to:

- increase NOR
- motivate countries to sell
- o Proposal I course development part of R&D budget
- o Proposal II charge standard cost to countries
- o There was a discussion on revenue of particular products, and how countries make decisions around promoting products if they are not bringing in enough revenue, or if countries are not making their margins. Pat wants all products offered we need the profit, not the revenue from Europe.
- *A.I. It was agreed that we will change 02 pricing to allow Europe to move larger volumes of packaged products. We will evaluate the standard cost model to determine cost and require additional contribution for Europe to make this up. Once numbers are agreed with Hermann and new goals set, the program will be implemented. Target date prior to or before December 30, 1988. This is an international only proposal. If GIA would also like increased volumes, they may make a separate proposal. Transfer cost in the U.S. will not change.

SWS/ES GIA CHARTER ISSUE - ED LAU

- o What is the situation?
 - We wouldn't sell base trainings to our customers.
 - Customers and Sales are confused about DECstart Services and Trainings.
 - Customer complaints.
 - DECstart but no training.
 - DECstart seen as training.
- o How did we react? Repackaging existing products into PIVOT (offered in 3 formats: L/L, SPI, Onsite) to meet solution orientation and oriental preference as driven by the market.

DISCUSSION

- o Pat's concerns:
 - instructors being available beyond th regular course hours
 - constraining family responsibilities of instructors.
 - traffic used as a reason to release classes early
 - debriefing of students back on the job
 - certification of students at end of program before being handed a diploma
 - competency testing and reward
 - 86% of people who have a bad course never return these are the people we should be concerned about
 - pre and post testing of students

UPDATES

o Each ESMC member reported the expense controls they have put in place for their own organization.

- o Joe pricing proposal has been approved. E.S. needs to be more flexible, more agressive, and do more onsite training to meet our financial commitments.
- o Jim Large project update on Boeing \$1.9 million deal before Christmas; Hughes Transport Canada project accepted; Allen-Bradley in 3 other pieces of business that will close before Christmas. QUEST continues to roll out. Will come back to the group on the testing issue.
- o Hermann Needs a shorter course development cycle. Feels there's an ownership issue around network training, which has been around for 12 months. Instructor Excellence in Europe the best event yet.
- o Del 11/22 is the Quarterly Forum
- o Mel JEC training is going well. All managers will have information by the end of the week.
- o Roy gave Operations Review to Personnel with rave reviews. In process of getting confirmation on development funds for Executive Program. Friday (11/11) had first meeting of Management Development Committee (George Mann was there from Europe). Strategy for Executive Education bought into by SSMI Personnel. Came away with a strategy for executive development and another for a program approach originally chartered for. Having a dynamite year.
- o Charlie Since last week, cancellations for Q3 activities are coming in for people who have to fly. ACT Center in Atlanta asking for development of DECwindows and courses for CSCs.
- o Tim Working A.I. training with McDonnell/Douglas for \$2 million. Core group has asked them to pick up more training business. Moving into SP V5.

ULTRIX AND UNIX UPDATE - BOB MURPHY

- o There are 25 courses within the ULTRIX family.
- o Discussed a management charge when work is transferred from one group to another.
- o Issues:
 - continued dependence on SWS Engineering for instructor resources
 - use of outside vendors for delivery of training
 - various tuition rates for employees depending on sponsoring training organization.

PRICING STRATEGY DISCUSSION

o Discussion around vendor costs, consultant costs, inhouse

costs and subcontracting costs.

o Suggested that a look be taken at the financial model for development fees.

CLOSING COMMENTS:

ESMC meetings will continue, and Russ Gullotti will run them.

There was a discussion on small group work for the Expanded Staff meeting on Thursday, November 17th.

Pat's Schedule:

11/17 ESMC Expanded Staff Meeting

11/22 E.S. Quarterly Forum

12/22 Kodak visit

12/15 Colorado visit

12/21 OA Christmas Party

12/22 OA Quarterly

2/6-9 ESMC Quarterly and Expanded Staff

Pat's goals for the next 3 months are:

- to be in charge of the forecast and financial metrics for E.S. with John McLean
- 2. CEC
- 3. staff planning

The following staffing plans have been approved: Don Elias, Charlie Tharp, Drew Boyd. Hermann owes Pat information on the Temporary situation in Europe.

- 4. salary reviews
- 5. JEC
- 6. DEC classic

Pat plans to be in the BUO facility once a week.

Operations Reviews and Bi-Weekly meetings will continue.

For Personnel issues, call Pat in the A.M. in the office of P.M. at home, or call Dottie.

Pat stressed that E.S. is in a mid-course correction.

Pat stressed that nowhere is there written how a 3-month special assignment should be run or how a new manager, Russ Gullotti, can be fitted into the business.

COPIES OF PRESENTATIONS ARE AVAILABLE UPON REQUEST.

21 November 1988 Jan Svendsen